

Photometric Test Report

Relevant Standards

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

Prepared For

RAB Lighting Inc.

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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		1870
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	94.4
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		19.8
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	8.65
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	5029±283	4992
			4 steps	5029±220	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		92.8
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		65
Minimum Rf (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥70		91
Minimum Rg (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥89		98
IES Rcs,h1 (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	-12%≤IES Rcs,h1≤+23%		-5%
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		0.168
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		19.8
(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 @20W5000K	-	250903022-S1
2	Goniophotometer Test	2025-09-17	PIVOTL24DB @20W5000K	-	250903022-S1
3	THD and PF Test	2025-09-17	PIVOTL24DB @20W5000K	-	250903022-S1

Remark (If any):

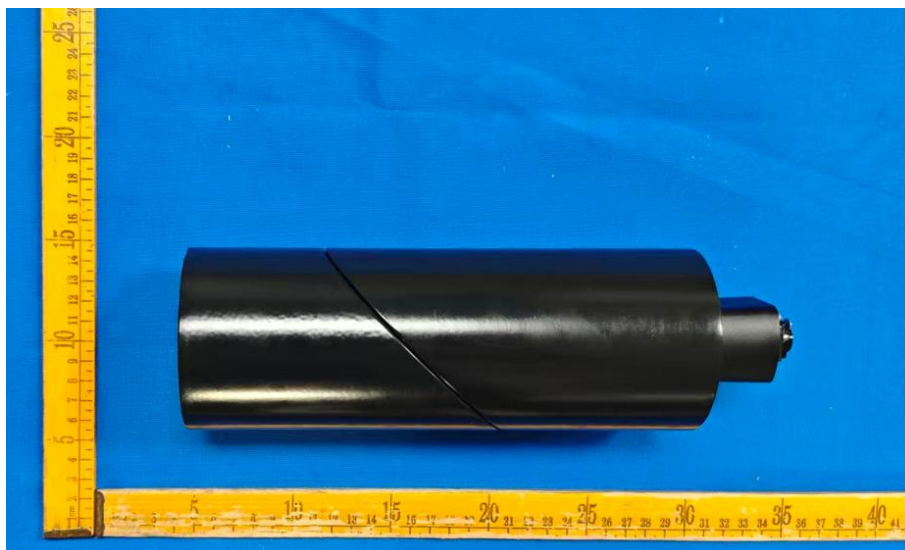
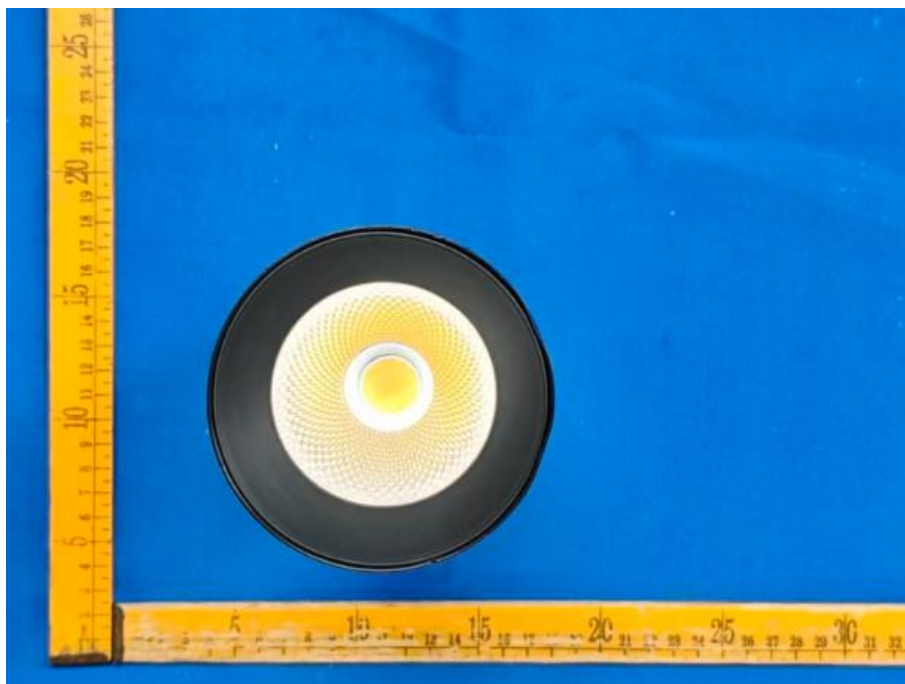
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3.0 Product Description

Luminaire Description: Model No. PIVOTL24DB @20W5000K, 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

Model No.	PIVOTL24DB @20W5000K	Sample ID	250903022-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

Test Method

The Samples were tested according to the ANSI/IES LM-79:2019.

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25\pm1^{\circ}\text{C}$.

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 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.

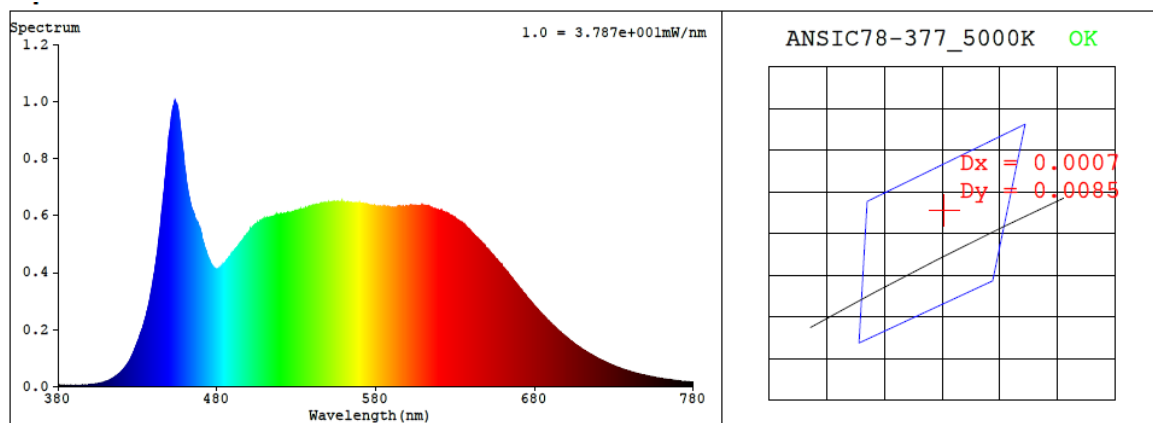
The sample was measured using 4π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780nm.

Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.168	19.8	0.983

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4992	92.8	65	0.0039	2.2	91	98	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3461$ $y = 0.3603$ / $u' = 0.2087$ $v' = 0.4890$ ($duv=3.94e-03$)

CCT= 4992K Prcp WL: $L_d=569.4nm$ Purity=12.0%

Peak WL: $L_p=454nm$ FWHM: $\approx 28.6nm$ Ratio: $R=17.0\%$ $G=77.4\%$ $B=5.6\%$

Render Index: $R_a = 92.8$ $AvgR = 89.4$ $TM30:R_f=92$ $R_g=98$

EEL: 0.15809 A+

R1 =93 R2 =96 R3 =98 R4 =90 R5 =91 R6 =94 R7 =94

R8 =86 R9 =65 R10=91 R11=91 R12=70 R13=94 R14=99 R15=89

4.1 Integrating Sphere Test

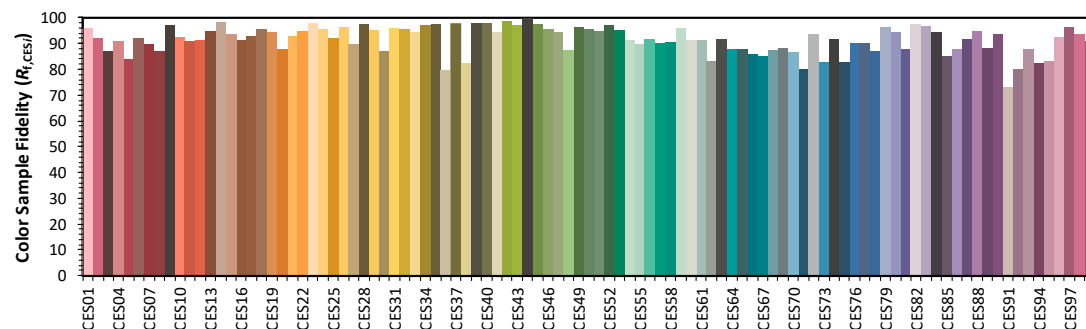
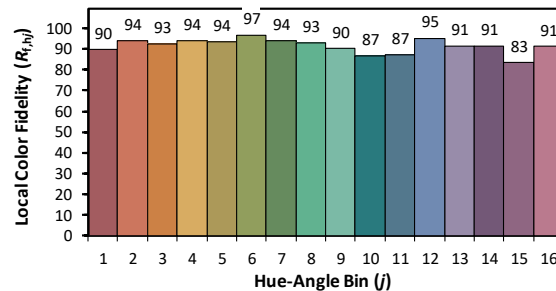
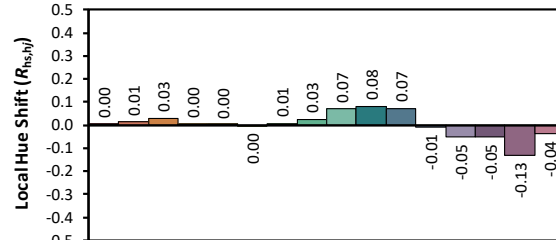
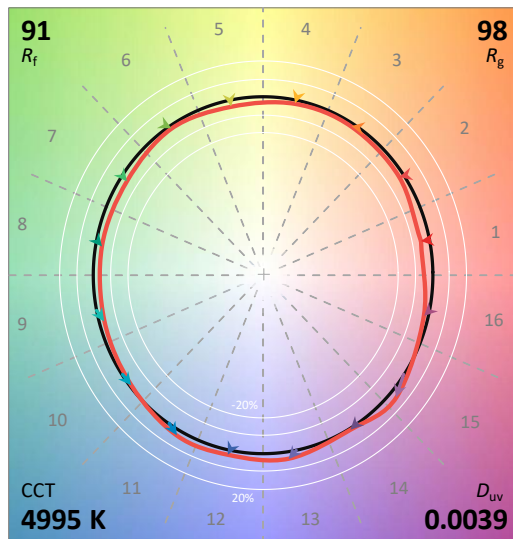
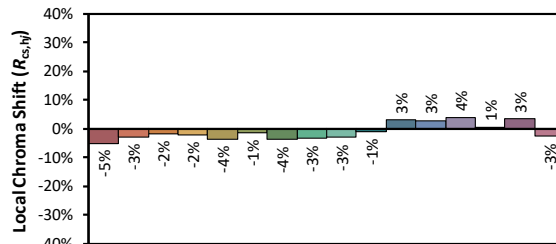
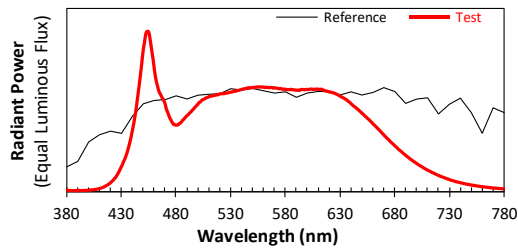
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/19

Model: PIVOTL24DB @20W5000K



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

x 0.3460
 y 0.3602
 u' 0.2087
 v' 0.4889

CIE 13-1995
(CRI)
 R_a 93
 R_9 65

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	6.20E-06	447	7.04E-04	514	5.94E-04	581	6.31E-04	648	4.98E-04	715	1.14E-04
381	5.80E-06	448	7.62E-04	515	5.96E-04	582	6.31E-04	649	4.92E-04	716	1.11E-04
382	4.40E-06	449	8.25E-04	516	5.97E-04	583	6.32E-04	650	4.85E-04	717	1.08E-04
383	5.00E-06	450	8.83E-04	517	6.00E-04	584	6.31E-04	651	4.80E-04	718	1.05E-04
384	4.70E-06	451	9.24E-04	518	5.99E-04	585	6.33E-04	652	4.72E-04	719	1.02E-04
385	4.10E-06	452	9.69E-04	519	6.03E-04	586	6.32E-04	653	4.65E-04	720	9.85E-05
386	3.80E-06	453	9.91E-04	520	6.04E-04	587	6.31E-04	654	4.61E-04	721	9.55E-05
387	4.50E-06	454	9.94E-04	521	6.05E-04	588	6.30E-04	655	4.53E-04	722	9.29E-05
388	4.20E-06	455	9.88E-04	522	6.07E-04	589	6.29E-04	656	4.48E-04	723	9.04E-05
389	4.50E-06	456	9.52E-04	523	6.06E-04	590	6.27E-04	657	4.41E-04	724	8.74E-05
390	4.40E-06	457	9.06E-04	524	6.07E-04	591	6.29E-04	658	4.34E-04	725	8.54E-05
391	4.60E-06	458	8.60E-04	525	6.10E-04	592	6.28E-04	659	4.28E-04	726	8.26E-05
392	4.70E-06	459	8.15E-04	526	6.09E-04	593	6.27E-04	660	4.19E-04	727	7.99E-05
393	4.50E-06	460	7.61E-04	527	6.11E-04	594	6.32E-04	661	4.14E-04	728	7.73E-05
394	4.90E-06	461	7.14E-04	528	6.13E-04	595	6.33E-04	662	4.06E-04	729	7.52E-05
395	5.40E-06	462	6.79E-04	529	6.15E-04	596	6.32E-04	663	4.00E-04	730	7.29E-05
396	4.90E-06	463	6.53E-04	530	6.16E-04	597	6.32E-04	664	3.93E-04	731	7.00E-05
397	5.70E-06	464	6.26E-04	531	6.17E-04	598	6.31E-04	665	3.86E-04	732	6.84E-05
398	5.80E-06	465	6.10E-04	532	6.19E-04	599	6.33E-04	666	3.80E-04	733	6.63E-05
399	6.30E-06	466	5.98E-04	533	6.21E-04	600	6.33E-04	667	3.72E-04	734	6.43E-05
400	6.70E-06	467	5.83E-04	534	6.21E-04	601	6.31E-04	668	3.65E-04	735	6.18E-05
401	7.40E-06	468	5.74E-04	535	6.24E-04	602	6.34E-04	669	3.56E-04	736	6.01E-05
402	8.10E-06	469	5.59E-04	536	6.26E-04	603	6.35E-04	670	3.51E-04	737	5.80E-05
403	8.70E-06	470	5.41E-04	537	6.26E-04	604	6.35E-04	671	3.42E-04	738	5.66E-05
404	9.60E-06	471	5.12E-04	538	6.29E-04	605	6.33E-04	672	3.36E-04	739	5.53E-05
405	1.03E-05	472	4.95E-04	539	6.31E-04	606	6.34E-04	673	3.29E-04	740	5.32E-05
406	1.14E-05	473	4.77E-04	540	6.33E-04	607	6.34E-04	674	3.24E-04	741	5.12E-05
407	1.24E-05	474	4.58E-04	541	6.35E-04	608	6.34E-04	675	3.16E-04	742	5.02E-05
408	1.39E-05	475	4.46E-04	542	6.35E-04	609	6.35E-04	676	3.09E-04	743	4.84E-05
409	1.58E-05	476	4.32E-04	543	6.38E-04	610	6.34E-04	677	3.02E-04	744	4.67E-05
410	1.76E-05	477	4.22E-04	544	6.39E-04	611	6.34E-04	678	2.96E-04	745	4.56E-05
411	1.91E-05	478	4.14E-04	545	6.41E-04	612	6.33E-04	679	2.89E-04	746	4.37E-05
412	2.19E-05	479	4.13E-04	546	6.43E-04	613	6.35E-04	680	2.83E-04	747	4.27E-05
413	2.43E-05	480	4.11E-04	547	6.43E-04	614	6.31E-04	681	2.77E-04	748	4.17E-05
414	2.71E-05	481	4.12E-04	548	6.44E-04	615	6.28E-04	682	2.71E-04	749	4.04E-05
415	3.06E-05	482	4.13E-04	549	6.43E-04	616	6.25E-04	683	2.64E-04	750	3.89E-05
416	3.51E-05	483	4.22E-04	550	6.45E-04	617	6.24E-04	684	2.58E-04	751	3.79E-05
417	3.85E-05	484	4.25E-04	551	6.44E-04	618	6.22E-04	685	2.52E-04	752	3.68E-05
418	4.30E-05	485	4.32E-04	552	6.46E-04	619	6.20E-04	686	2.47E-04	753	3.55E-05
419	4.75E-05	486	4.42E-04	553	6.47E-04	620	6.17E-04	687	2.40E-04	754	3.44E-05
420	5.34E-05	487	4.48E-04	554	6.48E-04	621	6.16E-04	688	2.34E-04	755	3.34E-05
421	5.94E-05	488	4.56E-04	555	6.47E-04	622	6.15E-04	689	2.30E-04	756	3.23E-05
422	6.64E-05	489	4.63E-04	556	6.49E-04	623	6.12E-04	690	2.23E-04	757	3.13E-05
423	7.34E-05	490	4.71E-04	557	6.48E-04	624	6.11E-04	691	2.18E-04	758	3.04E-05
424	8.16E-05	491	4.76E-04	558	6.47E-04	625	6.08E-04	692	2.12E-04	759	2.93E-05
425	9.03E-05	492	4.84E-04	559	6.48E-04	626	6.06E-04	693	2.07E-04	760	2.85E-05
426	1.01E-04	493	4.90E-04	560	6.47E-04	627	6.02E-04	694	2.01E-04	761	2.75E-05
427	1.13E-04	494	4.97E-04	561	6.44E-04	628	5.99E-04	695	1.97E-04	762	2.69E-05
428	1.26E-04	495	5.05E-04	562	6.47E-04	629	5.95E-04	696	1.92E-04	763	2.59E-05
429	1.40E-04	496	5.12E-04	563	6.45E-04	630	5.92E-04	697	1.87E-04	764	2.53E-05
430	1.55E-04	497	5.20E-04	564	6.45E-04	631	5.86E-04	698	1.83E-04	765	2.43E-05
431	1.68E-04	498	5.28E-04	565	6.44E-04	632	5.84E-04	699	1.77E-04	766	2.34E-05
432	1.86E-04	499	5.34E-04	566	6.44E-04	633	5.80E-04	700	1.73E-04	767	2.31E-05
433	2.00E-04	500	5.42E-04	567	6.45E-04	634	5.77E-04	701	1.68E-04	768	2.22E-05
434	2.19E-04	501	5.52E-04	568	6.43E-04	635	5.71E-04	702	1.63E-04	769	2.13E-05
435	2.38E-04	502	5.54E-04	569	6.41E-04	636	5.68E-04	703	1.60E-04	770	2.07E-05
436	2.62E-04	503	5.62E-04	570	6.44E-04	637	5.62E-04	704	1.56E-04	771	1.98E-05
437	2.87E-04	504	5.68E-04	571	6.42E-04	638	5.56E-04	705	1.51E-04	772	1.96E-05
438	3.14E-04	505	5.70E-04	572	6.41E-04	639	5.51E-04	706	1.47E-04	773	1.89E-05
439	3.44E-04	506	5.74E-04	573	6.39E-04	640	5.44E-04	707	1.43E-04	774	1.83E-05
440	3.79E-04	507	5.79E-04	574	6.37E-04	641	5.38E-04	708	1.39E-04	775	1.79E-05
441	4.13E-04	508	5.82E-04	575	6.39E-04	642	5.32E-04	709	1.35E-04	776	1.71E-05
442	4.53E-04	509	5.83E-04	576	6.37E-04	643	5.27E-04	710	1.31E-04	777	1.65E-05
443	4.94E-04	510	5.88E-04	577	6.36E-04	644	5.22E-04	711	1.28E-04	778	1.59E-05
444	5.44E-04	511	5.90E-04	578	6.33E-04	645	5.15E-04	712	1.25E-04	779	1.58E-05
445	5.96E-04	512	5.91E-04	579	6.36E-04	646	5.11E-04	713	1.21E-04	780	1.59E-05
446	6.48E-04	513	5.93E-04	580	6.33E-04	647	5.04E-04	714	1.18E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	PIVOTL24DB @20W5000K	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 $25 \pm 1^\circ\text{C}$, 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	120.0	60	0.168	19.8	0.983
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

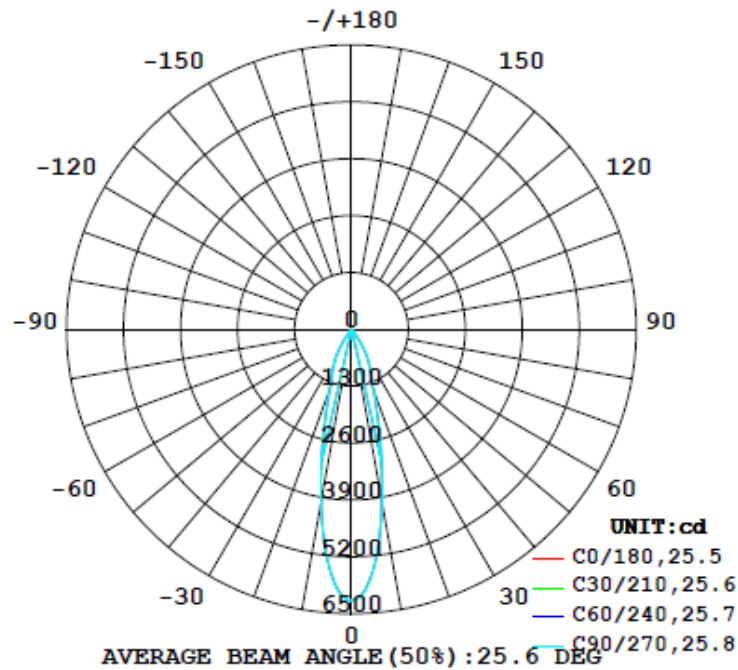
Test Result

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°)
1870	61.0	62.3	25.6	25.8	94.4	100.0%

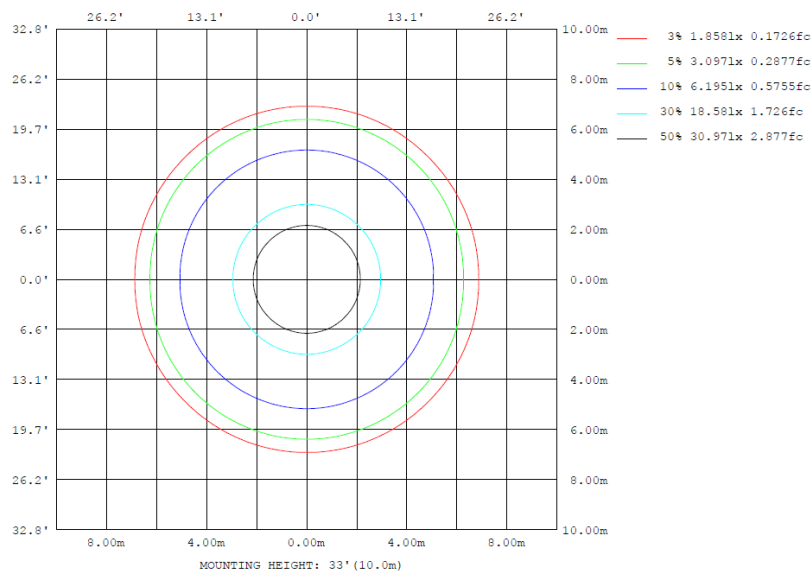
4.2 Goniophotometer Test

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	4009	4006	4006	4006	4009	4006	4006	4006	0- 10	479.6	479.6	25.7,25.7
20	1457	1486	1511	1486	1457	1486	1511	1486	10- 20	691.2	1171	62.6,62.6
30	660.3	703.0	715.4	703.0	660.3	703.0	715.4	703.0	20- 30	469.9	1641	87.8,87.8
40	58.79	49.48	44.63	49.48	58.79	49.48	44.63	49.48	30- 40	193.9	1835	98.1,98.1
50	16.03	16.43	16.98	16.43	16.03	16.43	16.98	16.43	40- 50	20.14	1855	99.2,99.2
60	7.114	7.430	7.877	7.430	7.114	7.430	7.877	7.430	50- 60	11.03	1866	99.8,99.8
70	0.9775	1.082	1.281	1.082	0.9775	1.082	1.281	1.082	60- 70	3.552	1869	100,100
80	0.0419	0.0386	0.0413	0.0386	0.0419	0.0386	0.0413	0.0386	70- 80	0.2350	1870	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0229	1870	100,100
100	0	0	0	0	0	0	0	0	90-100	0	1870	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1870	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1870	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1870	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1870	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1870	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1870	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1870	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1870	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	479.64	0-10	479.64	25.65%
10-20	691.16	0-20	1170.80	62.62%
20-30	469.94	0-30	1640.74	87.76%
30-40	193.93	0-40	1834.67	98.13%
40-50	20.14	0-50	1854.81	99.21%
50-60	11.03	0-60	1865.84	99.80%
60-70	3.55	0-70	1869.39	99.99%
70-80	0.23	0-80	1869.62	100.00%
80-90	0.02	0-90	1869.64	100.00%
90-100	0.00	0-100	1869.64	100.00%
100-110	0.00	0-110	1869.64	100.00%
110-120	0.00	0-120	1869.64	100.00%
120-130	0.00	0-130	1869.64	100.00%
130-140	0.00	0-140	1869.64	100.00%
140-150	0.00	0-150	1869.64	100.00%
150-160	0.00	0-160	1869.64	100.00%
160-170	0.00	0-170	1869.64	100.00%
170-180	0.00	0-180	1869.64	100.00%

4.2 Goniophotometer Test

Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	6195	6198	6196	6193	6201	6196	6195	6196	6201	6193	6196	6198	6195	6196	6196	6193	6201	6196	6195
5	5560	5565	5559	5557	5563	5571	5570	5571	5563	5557	5559	5565	5560	5565	5559	5557	5563	5571	5570
10	4009	4008	4004	4006	4002	3999	4006	3999	4002	4006	4004	4008	4009	4008	4004	4006	4002	3999	4006
15	2457	2466	2477	2485	2495	2504	2507	2504	2495	2485	2477	2466	2457	2466	2477	2485	2495	2504	2507
20	1457	1468	1477	1486	1496	1507	1511	1507	1496	1486	1477	1468	1457	1468	1477	1486	1496	1507	1511
25	997	1005	1014	1015	1015	1015	1013	1015	1015	1015	1014	1005	997	1005	1014	1015	1015	1015	1013
30	660	672	688	703	714	717	715	717	714	703	688	672	660	672	688	703	714	717	715
35	294	299	296	296	300	305	304	305	300	296	296	299	294	299	296	300	305	304	305
40	58.8	60.4	60.0	49.5	46.8	44.3	44.6	44.3	46.8	49.5	60.0	60.4	58.8	60.4	60.0	49.5	46.8	44.3	44.6
45	21.7	21.7	22.0	22.2	22.4	22.7	23.0	22.7	22.4	22.2	22.0	21.7	21.7	21.7	22.0	22.2	22.4	22.7	23.0
50	16.0	16.1	16.3	16.4	16.6	16.8	17.0	16.8	16.6	16.4	16.3	16.1	16.0	16.1	16.3	16.4	16.6	16.8	17.0
55	12.1	12.3	12.5	12.7	12.9	13.1	13.3	13.1	12.9	12.7	12.5	12.3	12.1	12.3	12.5	12.7	12.9	13.1	13.3
60	7.11	7.23	7.31	7.43	7.60	7.70	7.88	7.70	7.60	7.43	7.31	7.23	7.11	7.23	7.31	7.43	7.60	7.70	7.88
65	3.07	3.15	3.22	3.23	3.34	3.45	3.54	3.45	3.34	3.23	3.22	3.15	3.07	3.15	3.22	3.23	3.34	3.45	3.54
70	0.98	0.96	1.02	1.08	1.13	1.19	1.28	1.19	1.13	1.08	1.02	0.96	0.98	0.96	1.02	1.08	1.13	1.19	1.28
75	0.08	0.08	0.08	0.07	0.07	0.08	0.08	0.08	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.08	0.08
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) γ (DEG)	285	300	315	330	345														
0	6196	6201	6193	6196	6198														
5	5571	5563	5557	5559	5565														
10	3999	4002	4006	4004	4008														
15	2504	2495	2485	2477	2466														
20	1507	1496	1486	1477	1468														
25	1015	1015	1015	1014	1005														
30	717	714	703	688	672														
35	305	300	296	296	299														
40	44.3	46.8	49.5	60.0	60.4														
45	22.7	22.4	22.2	22.0	21.7														
50	16.8	16.6	16.4	16.3	16.1														
55	13.1	12.9	12.7	12.5	12.3														
60	7.70	7.60	7.43	7.31	7.23														
65	3.45	3.34	3.23	3.22	3.15														
70	1.19	1.13	1.08	1.02	0.96														
75	0.08	0.07	0.07	0.08	0.08														
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

Model No.	PIVOTL24DB @20W5000K	Sample ID	250903022-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±1°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	0.168	19.8	0.983	8.65

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*****