

Photometric Test Report

Relevant Standards

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

Prepared For

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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		812
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	97.9
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		8.3
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	14.33
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.959
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	3985±275	3813
			4 steps	3985±154	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		93.8
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		73
Minimum Rf (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥70		90
Minimum Rg (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥89		97
IES Rcs,h1 (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	-12%≤IES Rcs,h1≤+23%		-4%
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		0.072
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		8.3
(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	2025-09-08	PIVOTS24DB @4000K	-	250903024-S1
2	Goniophotometer Test	2025-09-08	PIVOTS24DB @4000K	-	250903024-S1
3	THD and PF Test	2025-09-08	PIVOTS24DB @4000K	-	250903024-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. PIVOTS24DB @4000K, color tunable from 3000K, 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.	PIVOTS24DB @4000K	Sample ID	250903024-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

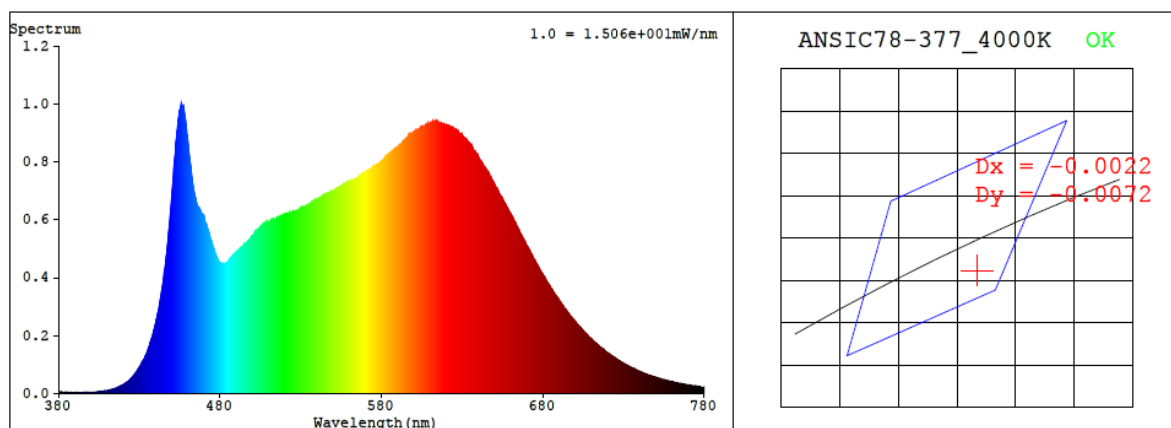
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.072	8.3	0.959

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3813	93.8	73	-0.0028	5.2	90	97	-4%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3868$ $y = 0.3747$ / $u' = 0.2302$ $v' = 0.5016$ ($duv = -2.76e-03$)

CCT= 3813K Prcp WL: Ld=581.3nm Purity=28.5%

Peak WL: Lp=456nm FWHM: =29.2nm Ratio:R=21.1% G=74.1% B=4.8%

Render Index: Ra = 93.8 AvgR = 92.4 TM30:Rf=91 Rg=98

EEL: 0.00000 A++ Highest

R1 =97 R2 =98 R3 =96 R4 =93 R5 =96 R6 =94 R7 =91

R8 =86 R9 =73 R10=97 R11=96 R12=77 R13=99 R14=98 R15=95

4.1 Integrating Sphere Test

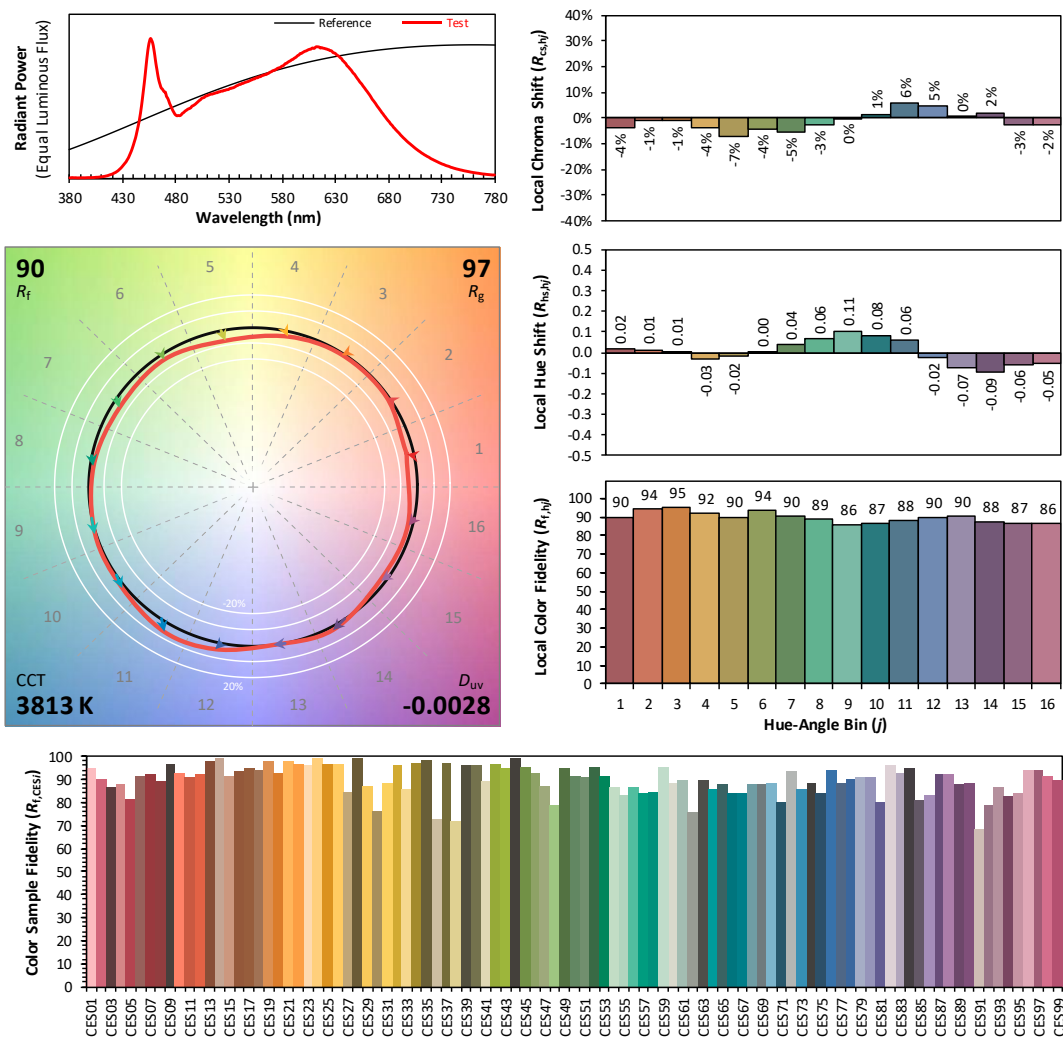
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/19

Model: PIVOTS24DB @4000K



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

x 0.3868
 y 0.3746
 u' 0.2302
 v' 0.5016

CIE 13.3-1995
(CRI)

R_a 94
 R_g 73

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	2.80E-06	447	4.90E-04	514	6.02E-04	581	8.05E-04	648	7.45E-04	715	1.64E-04
381	3.00E-06	448	5.47E-04	515	6.04E-04	582	8.12E-04	649	7.34E-04	716	1.59E-04
382	4.30E-06	449	6.11E-04	516	6.07E-04	583	8.20E-04	650	7.23E-04	717	1.54E-04
383	3.70E-06	450	6.75E-04	517	6.09E-04	584	8.22E-04	651	7.12E-04	718	1.51E-04
384	2.90E-06	451	7.44E-04	518	6.12E-04	585	8.28E-04	652	7.02E-04	719	1.46E-04
385	3.40E-06	452	8.18E-04	519	6.12E-04	586	8.33E-04	653	6.90E-04	720	1.41E-04
386	3.10E-06	453	8.86E-04	520	6.18E-04	587	8.38E-04	654	6.82E-04	721	1.37E-04
387	2.20E-06	454	9.43E-04	521	6.18E-04	588	8.41E-04	655	6.73E-04	722	1.33E-04
388	2.30E-06	455	9.79E-04	522	6.21E-04	589	8.48E-04	656	6.61E-04	723	1.29E-04
389	2.70E-06	456	1.00E-03	523	6.24E-04	590	8.50E-04	657	6.52E-04	724	1.26E-04
390	2.70E-06	457	9.86E-04	524	6.23E-04	591	8.56E-04	658	6.42E-04	725	1.22E-04
391	3.30E-06	458	9.68E-04	525	6.28E-04	592	8.61E-04	659	6.31E-04	726	1.18E-04
392	2.90E-06	459	9.29E-04	526	6.28E-04	593	8.66E-04	660	6.21E-04	727	1.15E-04
393	3.00E-06	460	8.79E-04	527	6.31E-04	594	8.73E-04	661	6.10E-04	728	1.11E-04
394	2.80E-06	461	8.23E-04	528	6.34E-04	595	8.79E-04	662	6.00E-04	729	1.07E-04
395	3.20E-06	462	7.78E-04	529	6.34E-04	596	8.83E-04	663	5.89E-04	730	1.04E-04
396	3.60E-06	463	7.31E-04	530	6.38E-04	597	8.92E-04	664	5.76E-04	731	1.01E-04
397	4.00E-06	464	6.96E-04	531	6.43E-04	598	8.92E-04	665	5.64E-04	732	9.84E-05
398	4.10E-06	465	6.70E-04	532	6.43E-04	599	8.98E-04	666	5.55E-04	733	9.52E-05
399	4.00E-06	466	6.47E-04	533	6.46E-04	600	9.02E-04	667	5.44E-04	734	9.16E-05
400	4.20E-06	467	6.39E-04	534	6.47E-04	601	9.07E-04	668	5.34E-04	735	8.91E-05
401	4.50E-06	468	6.28E-04	535	6.51E-04	602	9.09E-04	669	5.22E-04	736	8.69E-05
402	4.70E-06	469	6.18E-04	536	6.56E-04	603	9.12E-04	670	5.11E-04	737	8.47E-05
403	5.10E-06	470	6.15E-04	537	6.61E-04	604	9.17E-04	671	5.01E-04	738	8.14E-05
404	6.00E-06	471	5.86E-04	538	6.63E-04	605	9.20E-04	672	4.91E-04	739	7.80E-05
405	6.60E-06	472	5.74E-04	539	6.68E-04	606	9.23E-04	673	4.80E-04	740	7.62E-05
406	6.70E-06	473	5.57E-04	540	6.71E-04	607	9.23E-04	674	4.69E-04	741	7.35E-05
407	7.40E-06	474	5.35E-04	541	6.72E-04	608	9.30E-04	675	4.60E-04	742	7.11E-05
408	8.30E-06	475	5.18E-04	542	6.78E-04	609	9.32E-04	676	4.49E-04	743	6.91E-05
409	9.30E-06	476	5.01E-04	543	6.78E-04	610	9.28E-04	677	4.40E-04	744	6.68E-05
410	1.00E-05	477	4.84E-04	544	6.82E-04	611	9.34E-04	678	4.29E-04	745	6.49E-05
411	1.12E-05	478	4.71E-04	545	6.85E-04	612	9.40E-04	679	4.19E-04	746	6.31E-05
412	1.24E-05	479	4.58E-04	546	6.88E-04	613	9.40E-04	680	4.10E-04	747	6.12E-05
413	1.36E-05	480	4.51E-04	547	6.90E-04	614	9.40E-04	681	4.02E-04	748	5.91E-05
414	1.56E-05	481	4.47E-04	548	6.92E-04	615	9.38E-04	682	3.90E-04	749	5.78E-05
415	1.71E-05	482	4.49E-04	549	6.96E-04	616	9.31E-04	683	3.83E-04	750	5.58E-05
416	1.94E-05	483	4.48E-04	550	7.00E-04	617	9.35E-04	684	3.74E-04	751	5.40E-05
417	2.21E-05	484	4.49E-04	551	7.03E-04	618	9.32E-04	685	3.63E-04	752	5.22E-05
418	2.48E-05	485	4.55E-04	552	7.06E-04	619	9.30E-04	686	3.56E-04	753	5.08E-05
419	2.71E-05	486	4.64E-04	553	7.11E-04	620	9.28E-04	687	3.47E-04	754	4.93E-05
420	2.99E-05	487	4.69E-04	554	7.11E-04	621	9.26E-04	688	3.39E-04	755	4.79E-05
421	3.36E-05	488	4.76E-04	555	7.17E-04	622	9.24E-04	689	3.31E-04	756	4.63E-05
422	3.79E-05	489	4.83E-04	556	7.19E-04	623	9.20E-04	690	3.24E-04	757	4.48E-05
423	4.11E-05	490	4.87E-04	557	7.19E-04	624	9.19E-04	691	3.15E-04	758	4.30E-05
424	4.63E-05	491	4.93E-04	558	7.25E-04	625	9.13E-04	692	3.06E-04	759	4.21E-05
425	5.14E-05	492	4.97E-04	559	7.26E-04	626	9.13E-04	693	2.98E-04	760	4.04E-05
426	5.77E-05	493	5.00E-04	560	7.28E-04	627	9.08E-04	694	2.90E-04	761	3.96E-05
427	6.51E-05	494	5.05E-04	561	7.34E-04	628	8.98E-04	695	2.83E-04	762	3.81E-05
428	7.20E-05	495	5.15E-04	562	7.36E-04	629	8.97E-04	696	2.76E-04	763	3.71E-05
429	8.05E-05	496	5.19E-04	563	7.39E-04	630	8.93E-04	697	2.69E-04	764	3.60E-05
430	8.98E-05	497	5.24E-04	564	7.41E-04	631	8.85E-04	698	2.61E-04	765	3.52E-05
431	9.92E-05	498	5.29E-04	565	7.42E-04	632	8.79E-04	699	2.55E-04	766	3.38E-05
432	1.09E-04	499	5.36E-04	566	7.47E-04	633	8.75E-04	700	2.49E-04	767	3.26E-05
433	1.18E-04	500	5.42E-04	567	7.50E-04	634	8.68E-04	701	2.42E-04	768	3.13E-05
434	1.32E-04	501	5.49E-04	568	7.55E-04	635	8.61E-04	702	2.36E-04	769	3.03E-05
435	1.44E-04	502	5.56E-04	569	7.60E-04	636	8.55E-04	703	2.30E-04	770	2.96E-05
436	1.60E-04	503	5.61E-04	570	7.63E-04	637	8.42E-04	704	2.23E-04	771	2.89E-05
437	1.78E-04	504	5.70E-04	571	7.69E-04	638	8.36E-04	705	2.17E-04	772	2.78E-05
438	1.97E-04	505	5.75E-04	572	7.71E-04	639	8.27E-04	706	2.10E-04	773	2.69E-05
439	2.18E-04	506	5.76E-04	573	7.74E-04	640	8.20E-04	707	2.05E-04	774	2.61E-05
440	2.42E-04	507	5.81E-04	574	7.77E-04	641	8.06E-04	708	1.99E-04	775	2.55E-05
441	2.67E-04	508	5.88E-04	575	7.83E-04	642	7.99E-04	709	1.94E-04	776	2.45E-05
442	2.92E-04	509	5.89E-04	576	7.87E-04	643	7.91E-04	710	1.89E-04	777	2.40E-05
443	3.27E-04	510	5.93E-04	577	7.90E-04	644	7.81E-04	711	1.83E-04	778	2.31E-05
444	3.61E-04	511	5.96E-04	578	7.91E-04	645	7.73E-04	712	1.78E-04	779	2.30E-05
445	3.97E-04	512	5.99E-04	579	7.97E-04	646	7.62E-04	713	1.73E-04	780	2.31E-05
446	4.40E-04	513	6.02E-04	580	8.02E-04	647	7.52E-04	714	1.68E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	PIVOTS24DB @4000K	Sample ID	250903024-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	0.072	8.3	0.959
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

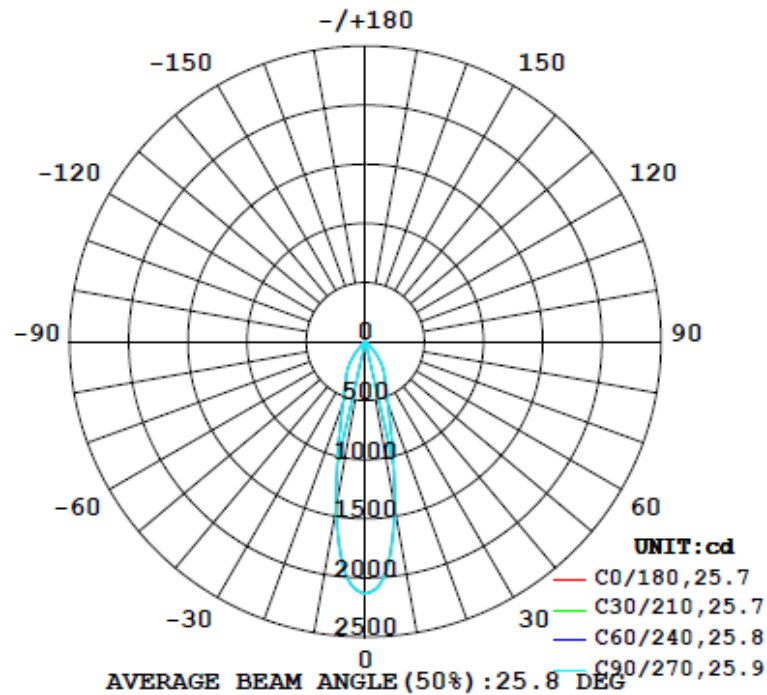
Test Result

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°)
812	72.5	72.9	25.7	26.0	97.9	100.0%

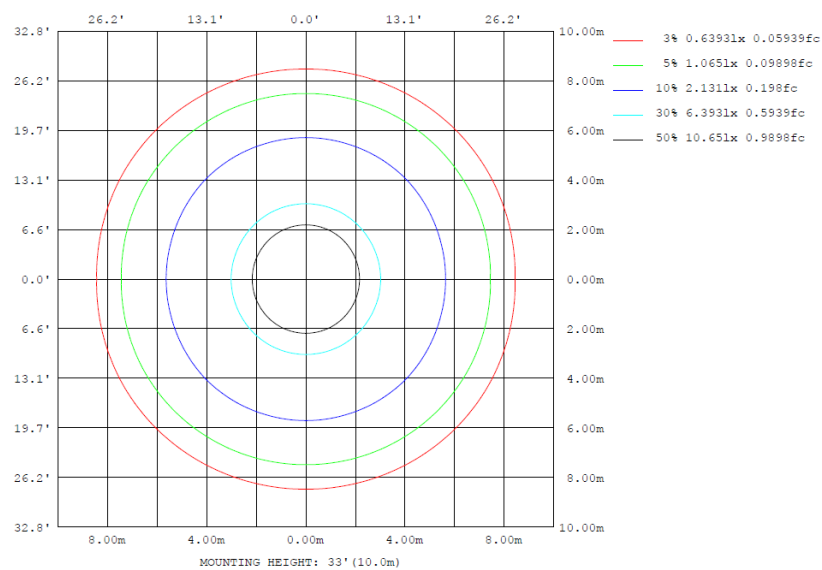
4.2 Goniophotometer Test

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	1416	1430	1440	1430	1416	1430	1440	1430	0- 10	169.8	169.8	20.9,20.9
20	553.4	556.4	561.6	556.4	553.4	556.4	561.6	556.4	10- 20	245.4	415.2	51.1,51.1
30	314.6	321.5	321.0	321.5	314.6	321.5	321.0	321.5	20- 30	188.2	603.3	74.3,74.3
40	146.1	153.9	149.2	153.9	146.1	153.9	149.2	153.9	30- 40	147.9	751.3	92.5,92.5
50	17.54	17.89	18.55	17.89	17.54	17.89	18.55	17.89	40- 50	49.88	801.1	98.6,98.6
60	3.867	3.887	4.018	3.887	3.867	3.887	4.018	3.887	50- 60	7.621	808.8	99.6,99.6
70	1.698	1.775	1.909	1.775	1.698	1.775	1.909	1.775	60- 70	2.667	811.4	99.9,99.9
80	0.0220	0.0212	0.0249	0.0212	0.0220	0.0212	0.0249	0.0212	70- 80	0.9351	812.4	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0094	812.4	100,100
100	0	0	0	0	0	0	0	0	90-100	0	812.4	100,100
110	0	0	0	0	0	0	0	0	100-110	0	812.4	100,100
120	0	0	0	0	0	0	0	0	110-120	0	812.4	100,100
130	0	0	0	0	0	0	0	0	120-130	0	812.4	100,100
140	0	0	0	0	0	0	0	0	130-140	0	812.4	100,100
150	0	0	0	0	0	0	0	0	140-150	0	812.4	100,100
160	0	0	0	0	0	0	0	0	150-160	0	812.4	100,100
170	0	0	0	0	0	0	0	0	160-170	0	812.4	100,100
180	0	0	0	0	0	0	0	0	170-180	0	812.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

	Zonal (lm)		Total (lm)	Percent
0-10	169.79	0-10	169.79	20.90%
10-20	245.37	0-20	415.16	51.10%
20-30	188.16	0-30	603.32	74.27%
30-40	147.93	0-40	751.25	92.48%
40-50	49.88	0-50	801.13	98.62%
50-60	7.62	0-60	808.75	99.55%
60-70	2.67	0-70	811.42	99.88%
70-80	0.94	0-80	812.36	100.00%
80-90	0.01	0-90	812.37	100.00%
90-100	0.00	0-100	812.37	100.00%
100-110	0.00	0-110	812.37	100.00%
110-120	0.00	0-120	812.37	100.00%
120-130	0.00	0-130	812.37	100.00%
130-140	0.00	0-140	812.37	100.00%
140-150	0.00	0-150	812.37	100.00%
150-160	0.00	0-160	812.37	100.00%
160-170	0.00	0-170	812.37	100.00%
170-180	0.00	0-180	812.37	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	2131	2132	2132	2132	2133	2132	2133	2132	2133	2132	2132	2132	2131	2132	2132	2132	2133	2132	2133
5	1956	1961	1964	1969	1971	1973	1970	1973	1971	1969	1964	1961	1956	1961	1964	1969	1971	1973	1970
10	1416	1420	1424	1430	1436	1439	1440	1439	1436	1430	1424	1420	1416	1420	1424	1430	1436	1439	1440
15	871	869	870	875	879	881	883	881	879	875	870	869	871	869	870	875	879	881	883
20	553	550	551	556	560	562	562	562	560	556	551	550	553	550	551	556	560	562	562
25	395	394	397	403	406	407	408	407	406	403	397	394	395	394	397	403	406	407	408
30	315	315	318	322	321	321	321	321	322	318	315	315	315	318	322	321	321	321	321
35	237	239	242	243	242	241	240	241	242	243	242	239	237	239	242	243	242	241	240
40	146	150	153	154	153	151	149	151	153	154	153	150	146	150	153	154	153	151	149
45	54.1	55.3	55.3	55.2	55.1	54.6	53.6	54.6	55.1	55.2	55.3	55.3	54.1	55.3	55.3	55.2	55.1	54.6	53.6
50	17.5	17.2	17.3	17.9	18.4	18.9	18.6	18.9	18.4	17.9	17.3	17.2	17.5	17.2	17.3	17.9	18.4	18.9	18.6
55	6.97	7.03	7.15	7.30	7.39	7.48	7.50	7.48	7.39	7.30	7.15	7.03	6.97	7.03	7.15	7.30	7.39	7.48	7.50
60	3.87	3.79	3.82	3.89	3.92	3.95	4.02	3.95	3.92	3.89	3.82	3.79	3.87	3.79	3.82	3.89	3.92	3.95	4.02
65	2.65	2.57	2.56	2.62	2.68	2.72	2.79	2.72	2.68	2.62	2.56	2.57	2.65	2.57	2.56	2.62	2.68	2.72	2.79
70	1.70	1.69	1.71	1.77	1.82	1.86	1.91	1.86	1.82	1.77	1.71	1.69	1.70	1.69	1.71	1.77	1.82	1.86	1.91
75	0.82	0.84	0.88	0.94	1.00	1.07	1.10	1.07	1.00	0.94	0.88	0.84	0.82	0.84	0.88	0.94	1.00	1.07	1.10
80	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
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	2132	2133	2132	2132	2132														
5	1973	1971	1969	1964	1961														
10	1439	1436	1430	1424	1420														
15	881	879	875	870	869														
20	562	560	556	551	550														
25	407	406	403	397	394														
30	321	321	322	318	315														
35	241	242	243	242	239														
40	151	153	154	153	150														
45	54.6	55.1	55.2	55.3	55.3														
50	18.9	18.4	17.9	17.3	17.2														
55	7.48	7.39	7.30	7.15	7.03														
60	3.95	3.92	3.89	3.82	3.79														
65	2.72	2.68	2.62	2.56	2.57														
70	1.86	1.82	1.77	1.71	1.69														
75	1.07	1.00	0.94	0.88	0.84														
80	0.02	0.02	0.02	0.02	0.02														
85	0.01	0.01	0.01	0.01	0.01														
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.	PIVOTS24DB @4000K	Sample ID	250903024-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	0.072	8.3	0.959	14.33

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*****