

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		622
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	91.5
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		6.8
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	12.65
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.957
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	3985±275	3941
			4 steps	3985±154	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		95.0
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		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%		-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		0.059
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		6.8
(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	2025-09-09	PIVOTM24DB @8W4000K	-	250903023-S1
2	Goniophotometer Test	2025-09-09	PIVOTM24DB @8W4000K	-	250903023-S1
3	THD and PF Test	2025-09-09	PIVOTM24DB @8W4000K	-	250903023-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. PIVOTM24DB @8W4000K, 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.	PIVOTM24DB @8W4000K	Sample ID	250903023-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

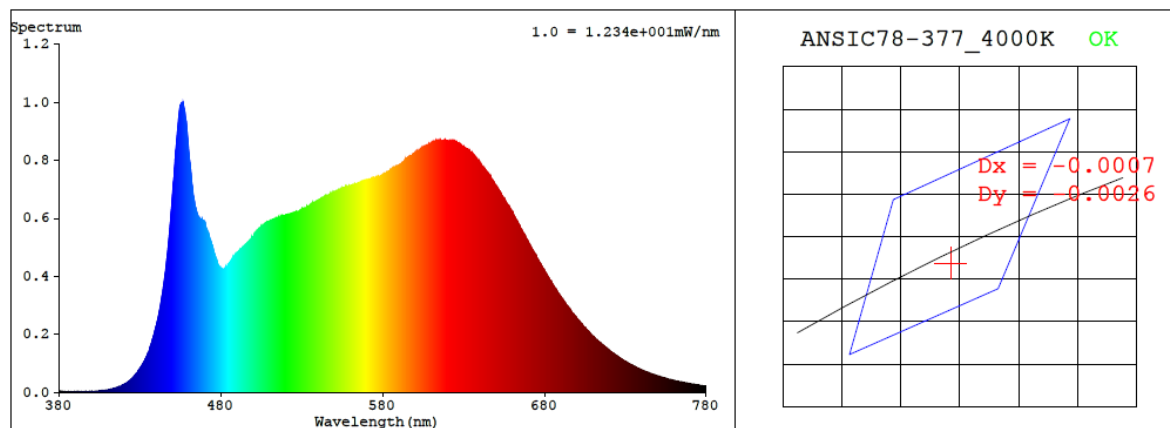
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.059	6.8	0.957

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3941	95.0	80	-0.0010	2.2	90	97	-3%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3824$ $y = 0.3758$ / $u' = 0.2267$ $v' = 0.5015$ ($duv = -9.97e-04$)

CCT= 3941K Prcp WL: $L_d = 579.8\text{nm}$ Purity=27.5%

Peak WL: $L_p = 457\text{nm}$ FWHM: $= 27.6\text{nm}$ Ratio: R=20.6% G=74.5% B=4.9%

Render Index: $R_a = 95.0$ AvgR = 93.7 TM30: $R_f = 92$ $R_g = 98$

EEL: 0.12760 A+

R1 =98 R2 =98 R3 =97 R4 =94 R5 =96 R6 =95 R7 =92

R8 =90 R9 =80 R10=98 R11=96 R12=76 R13=99 R14=99 R15=95

4.1 Integrating Sphere Test

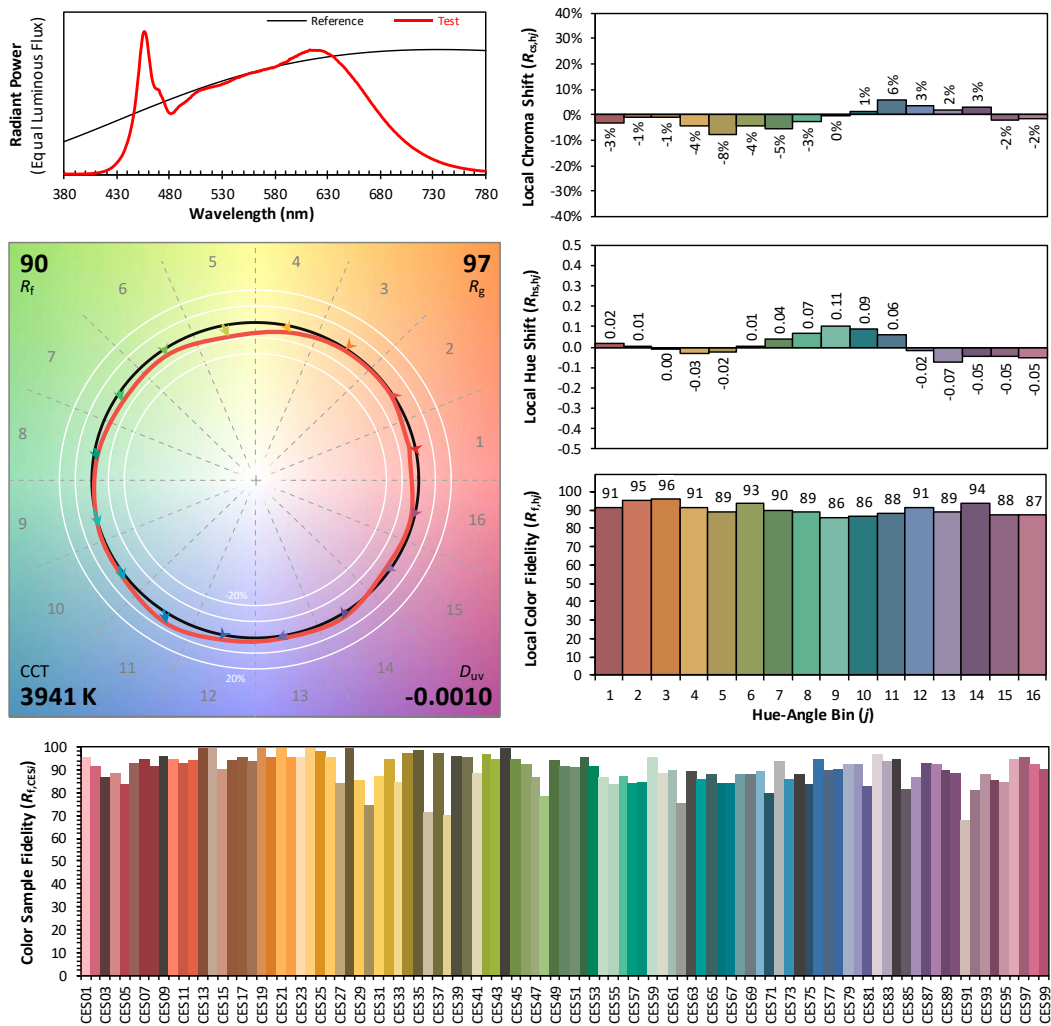
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/19

Model: PIVOTM24DB @8W4000K



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

x 0.3823
 y 0.3757
 u' 0.2268
 v' 0.5014

CIE 13.3-1995
(CRI)

R_a 95
 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	3.90E-06	447	4.78E-04	514	6.00E-04	581	7.53E-04	648	7.32E-04	715	1.69E-04
381	3.90E-06	448	5.36E-04	515	6.00E-04	582	7.56E-04	649	7.22E-04	716	1.64E-04
382	2.60E-06	449	6.02E-04	516	6.05E-04	583	7.59E-04	650	7.12E-04	717	1.59E-04
383	2.30E-06	450	6.74E-04	517	6.05E-04	584	7.63E-04	651	7.04E-04	718	1.54E-04
384	2.40E-06	451	7.41E-04	518	6.07E-04	585	7.68E-04	652	6.96E-04	719	1.50E-04
385	2.00E-06	452	8.26E-04	519	6.08E-04	586	7.72E-04	653	6.87E-04	720	1.45E-04
386	2.90E-06	453	8.88E-04	520	6.11E-04	587	7.75E-04	654	6.76E-04	721	1.41E-04
387	2.70E-06	454	9.50E-04	521	6.13E-04	588	7.78E-04	655	6.69E-04	722	1.37E-04
388	2.50E-06	455	9.89E-04	522	6.13E-04	589	7.80E-04	656	6.58E-04	723	1.33E-04
389	2.40E-06	456	9.98E-04	523	6.16E-04	590	7.82E-04	657	6.48E-04	724	1.29E-04
390	2.70E-06	457	9.88E-04	524	6.18E-04	591	7.86E-04	658	6.43E-04	725	1.25E-04
391	2.90E-06	458	9.59E-04	525	6.18E-04	592	7.91E-04	659	6.31E-04	726	1.22E-04
392	2.30E-06	459	9.10E-04	526	6.21E-04	593	7.92E-04	660	6.22E-04	727	1.18E-04
393	2.60E-06	460	8.47E-04	527	6.23E-04	594	8.06E-04	661	6.11E-04	728	1.14E-04
394	2.90E-06	461	7.90E-04	528	6.23E-04	595	8.06E-04	662	6.00E-04	729	1.10E-04
395	2.90E-06	462	7.32E-04	529	6.27E-04	596	8.09E-04	663	5.92E-04	730	1.07E-04
396	2.90E-06	463	6.80E-04	530	6.33E-04	597	8.15E-04	664	5.81E-04	731	1.04E-04
397	3.30E-06	464	6.46E-04	531	6.33E-04	598	8.15E-04	665	5.70E-04	732	1.00E-04
398	3.40E-06	465	6.23E-04	532	6.34E-04	599	8.22E-04	666	5.60E-04	733	9.73E-05
399	3.90E-06	466	6.06E-04	533	6.40E-04	600	8.26E-04	667	5.49E-04	734	9.50E-05
400	3.90E-06	467	6.00E-04	534	6.41E-04	601	8.25E-04	668	5.40E-04	735	9.09E-05
401	3.90E-06	468	5.96E-04	535	6.42E-04	602	8.34E-04	669	5.29E-04	736	8.86E-05
402	4.30E-06	469	5.91E-04	536	6.47E-04	603	8.37E-04	670	5.19E-04	737	8.55E-05
403	4.90E-06	470	5.90E-04	537	6.50E-04	604	8.40E-04	671	5.08E-04	738	8.34E-05
404	5.00E-06	471	5.64E-04	538	6.53E-04	605	8.43E-04	672	4.97E-04	739	7.98E-05
405	5.70E-06	472	5.50E-04	539	6.58E-04	606	8.47E-04	673	4.87E-04	740	7.74E-05
406	6.20E-06	473	5.36E-04	540	6.61E-04	607	8.51E-04	674	4.78E-04	741	7.55E-05
407	6.80E-06	474	5.18E-04	541	6.65E-04	608	8.50E-04	675	4.69E-04	742	7.28E-05
408	7.20E-06	475	5.01E-04	542	6.69E-04	609	8.57E-04	676	4.57E-04	743	7.10E-05
409	7.90E-06	476	4.78E-04	543	6.72E-04	610	8.58E-04	677	4.48E-04	744	6.80E-05
410	8.80E-06	477	4.61E-04	544	6.75E-04	611	8.61E-04	678	4.39E-04	745	6.60E-05
411	9.80E-06	478	4.45E-04	545	6.77E-04	612	8.63E-04	679	4.29E-04	746	6.41E-05
412	1.14E-05	479	4.34E-04	546	6.77E-04	613	8.69E-04	680	4.21E-04	747	6.20E-05
413	1.22E-05	480	4.28E-04	547	6.81E-04	614	8.69E-04	681	4.10E-04	748	6.06E-05
414	1.41E-05	481	4.24E-04	548	6.84E-04	615	8.67E-04	682	4.00E-04	749	5.85E-05
415	1.57E-05	482	4.26E-04	549	6.88E-04	616	8.67E-04	683	3.91E-04	750	5.65E-05
416	1.77E-05	483	4.30E-04	550	6.89E-04	617	8.66E-04	684	3.82E-04	751	5.53E-05
417	1.95E-05	484	4.32E-04	551	6.93E-04	618	8.68E-04	685	3.73E-04	752	5.33E-05
418	2.12E-05	485	4.43E-04	552	6.95E-04	619	8.67E-04	686	3.65E-04	753	5.18E-05
419	2.46E-05	486	4.52E-04	553	6.99E-04	620	8.67E-04	687	3.57E-04	754	5.04E-05
420	2.69E-05	487	4.59E-04	554	6.99E-04	621	8.66E-04	688	3.47E-04	755	4.86E-05
421	3.03E-05	488	4.67E-04	555	7.04E-04	622	8.67E-04	689	3.38E-04	756	4.68E-05
422	3.38E-05	489	4.76E-04	556	7.06E-04	623	8.67E-04	690	3.30E-04	757	4.48E-05
423	3.79E-05	490	4.81E-04	557	7.07E-04	624	8.64E-04	691	3.22E-04	758	4.41E-05
424	4.17E-05	491	4.86E-04	558	7.10E-04	625	8.63E-04	692	3.15E-04	759	4.22E-05
425	4.69E-05	492	4.92E-04	559	7.10E-04	626	8.61E-04	693	3.07E-04	760	4.12E-05
426	5.27E-05	493	4.95E-04	560	7.11E-04	627	8.58E-04	694	2.98E-04	761	3.97E-05
427	5.95E-05	494	5.02E-04	561	7.14E-04	628	8.56E-04	695	2.92E-04	762	3.89E-05
428	6.54E-05	495	5.07E-04	562	7.14E-04	629	8.50E-04	696	2.85E-04	763	3.75E-05
429	7.49E-05	496	5.13E-04	563	7.18E-04	630	8.47E-04	697	2.76E-04	764	3.67E-05
430	8.23E-05	497	5.18E-04	564	7.18E-04	631	8.42E-04	698	2.70E-04	765	3.52E-05
431	9.08E-05	498	5.26E-04	565	7.22E-04	632	8.39E-04	699	2.63E-04	766	3.39E-05
432	1.00E-04	499	5.33E-04	566	7.23E-04	633	8.35E-04	700	2.56E-04	767	3.29E-05
433	1.11E-04	500	5.36E-04	567	7.24E-04	634	8.31E-04	701	2.49E-04	768	3.21E-05
434	1.21E-04	501	5.48E-04	568	7.29E-04	635	8.27E-04	702	2.43E-04	769	3.11E-05
435	1.34E-04	502	5.53E-04	569	7.31E-04	636	8.20E-04	703	2.36E-04	770	3.03E-05
436	1.49E-04	503	5.59E-04	570	7.31E-04	637	8.15E-04	704	2.29E-04	771	2.91E-05
437	1.66E-04	504	5.66E-04	571	7.33E-04	638	8.06E-04	705	2.23E-04	772	2.80E-05
438	1.86E-04	505	5.73E-04	572	7.35E-04	639	7.99E-04	706	2.17E-04	773	2.71E-05
439	2.07E-04	506	5.74E-04	573	7.37E-04	640	7.93E-04	707	2.12E-04	774	2.67E-05
440	2.27E-04	507	5.80E-04	574	7.39E-04	641	7.83E-04	708	2.05E-04	775	2.57E-05
441	2.53E-04	508	5.85E-04	575	7.41E-04	642	7.76E-04	709	1.99E-04	776	2.46E-05
442	2.78E-04	509	5.87E-04	576	7.44E-04	643	7.71E-04	710	1.93E-04	777	2.40E-05
443	3.12E-04	510	5.90E-04	577	7.45E-04	644	7.63E-04	711	1.88E-04	778	2.33E-05
444	3.44E-04	511	5.94E-04	578	7.45E-04	645	7.57E-04	712	1.82E-04	779	2.33E-05
445	3.85E-04	512	5.93E-04	579	7.47E-04	646	7.48E-04	713	1.78E-04	780	2.34E-05
446	4.27E-04	513	5.96E-04	580	7.50E-04	647	7.40E-04	714	1.74E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	PIVOTM24DB @8W4000K	Sample ID	250903023-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	25.0	Humidity (%RH)	40.2

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	0.059	6.8	0.957
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

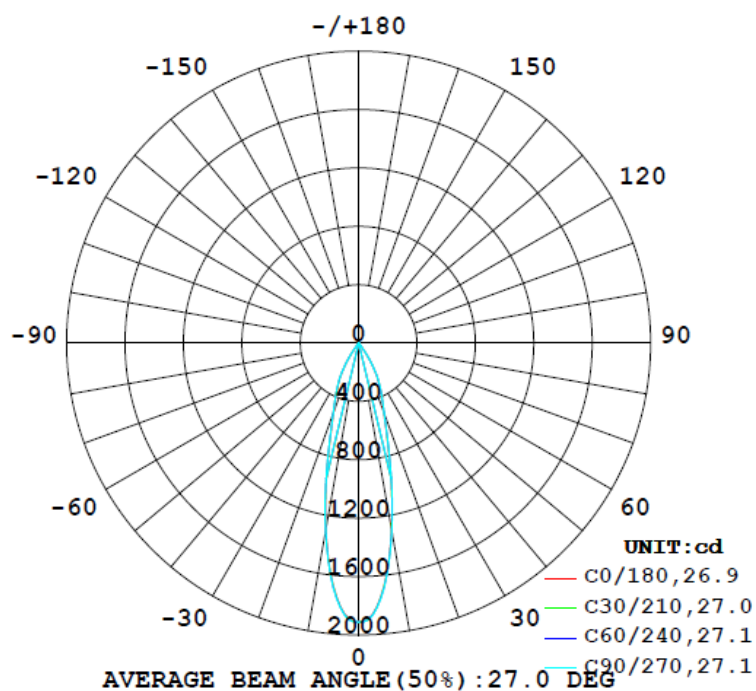
Test Result

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°)
622	62.4	63.0	26.9	27.2	91.5	100.0%

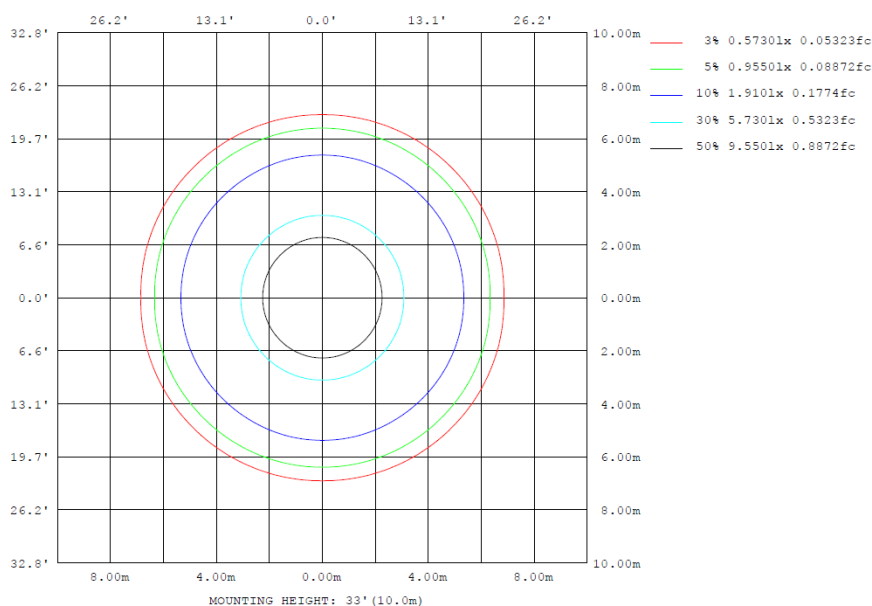
4.2 Goniophotometer Test

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	1300	1304	1309	1304	1300	1304	1309	1304	0- 10	152.5	152.5	24.5,24.5
20	502.4	513.9	511.1	513.9	502.4	513.9	511.1	513.9	10- 20	229.3	381.8	61.4,61.4
30	226.7	230.1	234.6	230.1	226.7	230.1	234.6	230.1	20- 30	164.1	545.9	87.8,87.8
40	15.74	16.51	16.11	16.51	15.74	16.51	16.11	16.51	30- 40	61.39	607.3	97.7,97.7
50	7.263	7.363	7.277	7.363	7.263	7.363	7.277	7.363	40- 50	7.573	614.8	98.9,98.9
60	3.398	3.584	3.637	3.584	3.398	3.584	3.637	3.584	50- 60	5.103	619.9	99.7,99.7
70	0.5814	0.6551	0.6548	0.6551	0.5814	0.6551	0.6548	0.6551	60- 70	1.775	621.7	100,100
80	0.0169	0.0169	0.0175	0.0169	0.0169	0.0169	0.0175	0.0169	70- 80	0.1207	621.8	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0093	621.9	100,100
100	0	0	0	0	0	0	0	0	90-100	0	621.9	100,100
110	0	0	0	0	0	0	0	0	100-110	0	621.9	100,100
120	0	0	0	0	0	0	0	0	110-120	0	621.9	100,100
130	0	0	0	0	0	0	0	0	120-130	0	621.9	100,100
140	0	0	0	0	0	0	0	0	130-140	0	621.9	100,100
150	0	0	0	0	0	0	0	0	140-150	0	621.9	100,100
160	0	0	0	0	0	0	0	0	150-160	0	621.9	100,100
170	0	0	0	0	0	0	0	0	160-170	0	621.9	100,100
180	0	0	0	0	0	0	0	0	170-180	0	621.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	152.45	0-10	152.45	24.52%
10-20	229.30	0-20	381.75	61.39%
20-30	164.13	0-30	545.88	87.78%
30-40	61.39	0-40	607.27	97.66%
40-50	7.57	0-50	614.84	98.87%
50-60	5.10	0-60	619.94	99.69%
60-70	1.77	0-70	621.71	99.98%
70-80	0.12	0-80	621.83	100.00%
80-90	0.01	0-90	621.84	100.00%
90-100	0.00	0-100	621.84	100.00%
100-110	0.00	0-110	621.84	100.00%
110-120	0.00	0-120	621.84	100.00%
120-130	0.00	0-130	621.84	100.00%
130-140	0.00	0-140	621.84	100.00%
140-150	0.00	0-150	621.84	100.00%
150-160	0.00	0-160	621.84	100.00%
160-170	0.00	0-170	621.84	100.00%
170-180	0.00	0-180	621.84	100.00%

4.2 Goniophotometer Test

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
γ (DEG)	1910	1910	1911	1912	1909	1911	1911	1911	1909	1912	1911	1910	1910	1910	1911	1912	1909	1911	1911
5	1744	1748	1749	1752	1752	1753	1754	1753	1752	1752	1749	1748	1744	1748	1749	1752	1752	1753	1754
10	1300	1301	1302	1304	1304	1310	1309	1310	1304	1304	1302	1301	1300	1301	1302	1304	1304	1310	1309
15	815	819	817	822	825	828	827	828	825	822	817	819	815	819	817	822	825	828	827
20	502	508	511	514	514	514	511	514	514	511	508	502	508	511	514	514	514	514	511
25	355	359	360	359	360	361	360	361	360	359	360	359	355	359	360	359	360	361	360
30	227	229	230	230	231	234	235	234	231	230	230	229	227	229	230	230	231	234	235
35	87.7	91.4	93.9	94.8	94.6	94.0	93.0	94.0	94.6	94.8	93.9	91.4	87.7	91.4	93.9	94.8	94.6	94.0	93.0
40	15.7	16.4	16.7	16.5	16.3	16.3	16.1	16.3	16.3	16.5	16.7	16.4	15.7	16.4	16.7	16.5	16.3	16.3	16.1
45	9.03	9.34	9.41	9.23	9.11	9.10	9.02	9.10	9.11	9.23	9.41	9.34	9.03	9.34	9.41	9.23	9.11	9.10	9.02
50	7.26	7.50	7.53	7.36	7.29	7.31	7.28	7.31	7.29	7.36	7.53	7.50	7.26	7.50	7.53	7.36	7.29	7.31	7.28
55	5.71	5.90	5.91	5.83	5.85	5.85	5.85	5.85	5.83	5.91	5.90	5.71	5.90	5.91	5.83	5.85	5.85	5.85	5.85
60	3.40	3.52	3.59	3.58	3.62	3.65	3.64	3.65	3.62	3.58	3.59	3.52	3.40	3.52	3.59	3.58	3.62	3.65	3.64
65	1.49	1.59	1.65	1.66	1.68	1.69	1.63	1.69	1.68	1.66	1.65	1.59	1.49	1.59	1.65	1.66	1.68	1.69	1.63
70	0.58	0.64	0.66	0.66	0.63	0.63	0.65	0.63	0.63	0.66	0.66	0.64	0.58	0.64	0.66	0.66	0.63	0.63	0.65
75	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
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)	285	300	315	330	345														
γ (DEG)	1911	1909	1912	1911	1910														
5	1753	1752	1752	1749	1748														
10	1310	1304	1304	1302	1301														
15	828	825	822	817	819														
20	514	514	514	511	508														
25	361	360	359	360	359														
30	234	231	230	230	229														
35	94.0	94.6	94.8	93.9	91.4														
40	16.3	16.3	16.5	16.7	16.4														
45	9.10	9.11	9.23	9.41	9.34														
50	7.31	7.29	7.36	7.53	7.50														
55	5.85	5.85	5.83	5.91	5.90														
60	3.65	3.62	3.58	3.59	3.52														
65	1.69	1.68	1.66	1.65	1.59														
70	0.63	0.63	0.66	0.66	0.64														
75	0.03	0.03	0.03	0.03	0.03														
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.	PIVOTM24DB @8W4000K	Sample ID	250903023-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	0.059	6.8	0.957	12.65

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*****