

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: 2025-09-12

Revised Date: N/A

1.0 Test Summary

DLC Technical Requirements V5.1

Recessed Mount Luminaires				
Requirement Category	Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	250		785
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Standard	Premium	86.3
		80	95	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Worst Case		9.1
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	13.35
Power Factor (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.963
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019	7 steps	3045±175	3031
		4 steps	3045±100	
Minimum CRI (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019 CIE13.3-1995	≥80		93.1
Minimum R9 (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019 CIE13.3-1995	≥0		72
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		102
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		0.079
(Goniophotometer – Section 4.2)		Non-Worst Case		N/A
Power (Input Wattage – W)				
(Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Worst Case		9.1
(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	2025-09-04	ARCRMB	-	250903009-S1
2	Goniophotometer Test	2025-09-04	ARCRMB	-	250903009-S1
3	THD and PF Test	2025-09-04	ARCRMB	-	250903009-S1

Remark (If any):

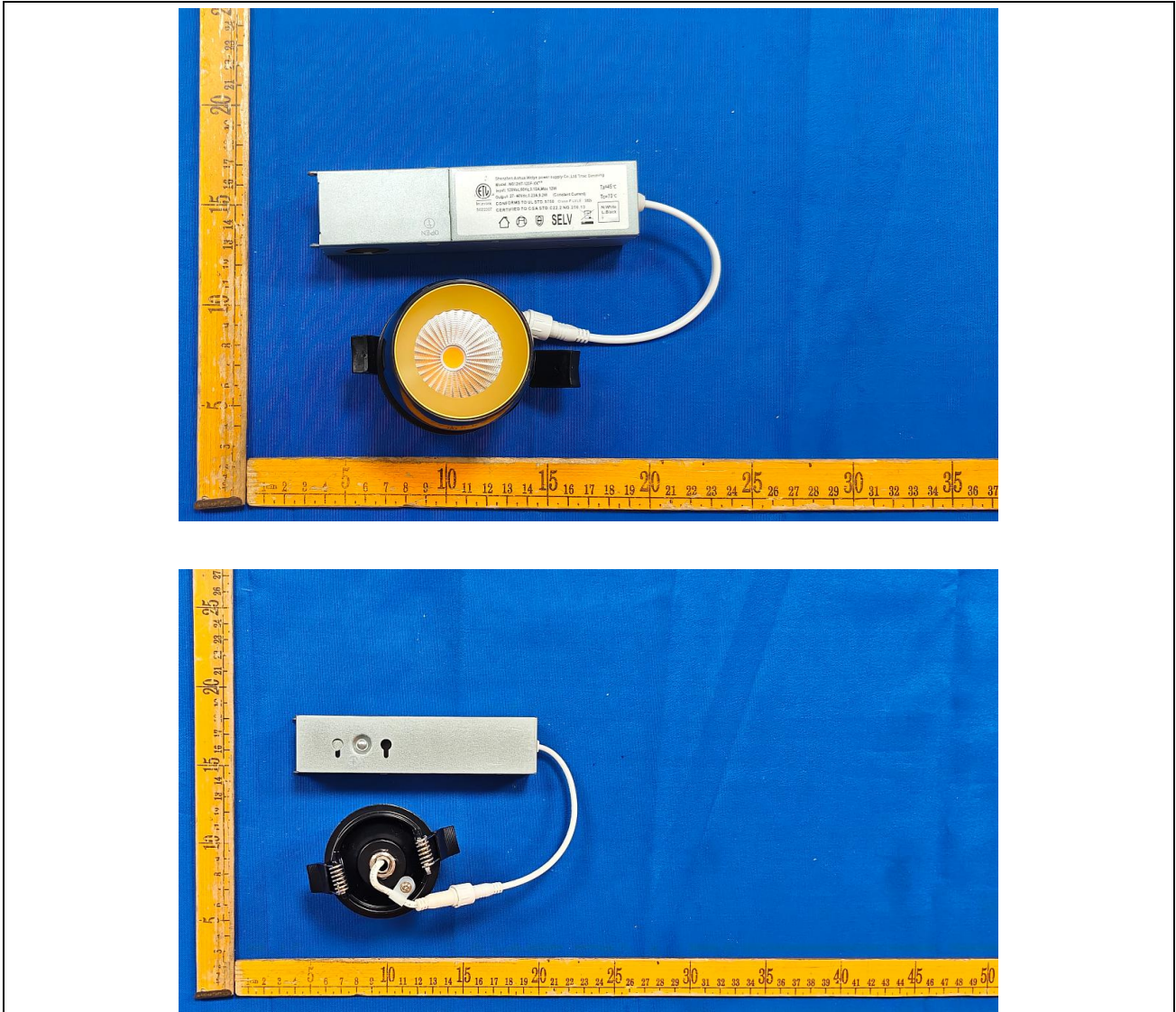
1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
3. This report must not be used by the client to claim product certification, approval, or endorsement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

3.0 Product Description

Luminaire Description: Model No. ARCRMB, 3000K.

Electrical Specification: 120Vac, 60Hz

Photos of Luminaire Characteristics



4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test

Model No.	ARCRMB	Sample ID	250903009-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

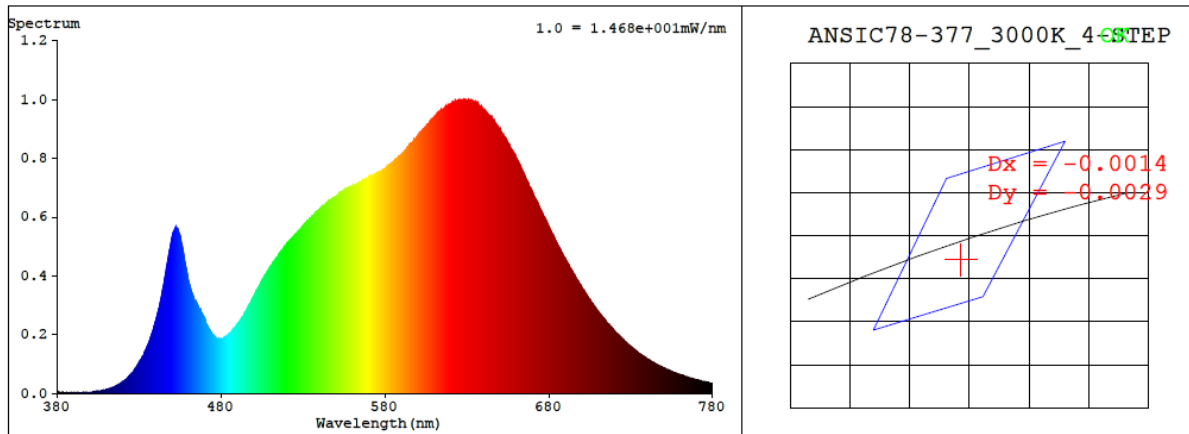
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.079	9.1	0.963

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3031	93.1	72	-0.0010	1.3	91	102	-3%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4334$ $y = 0.4005$ / $u' = 0.2498$ $v' = 0.5194$ ($duv = -9.58e-04$)

CCT= 3031K Prcp WL: $L_d = 583.0nm$ Purity=50.3%

Peak WL: $L_p = 628nm$ FWHM: =167.0nm Ratio:R=24.2% G=73.2% B=2.6%

Render Index: $R_a = 93.1$ AvgR = 90.3 TM30:Rf=92 Rg=102

EEL: 0.15325 A+

R1 =94 R2 =95 R3 =93 R4 =94 R5 =93 R6 =92 R7 =95

R8 =89 R9 =72 R10=86 R11=93 R12=77 R13=94 R14=95 R15=93

4.1 Integrating Sphere Test

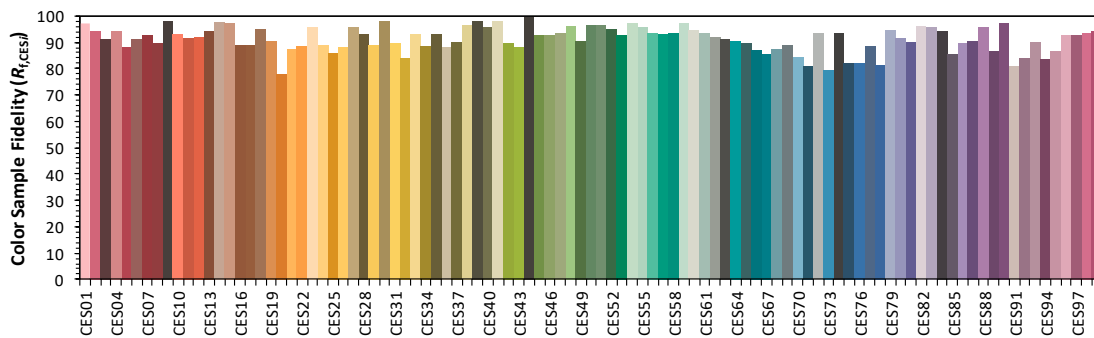
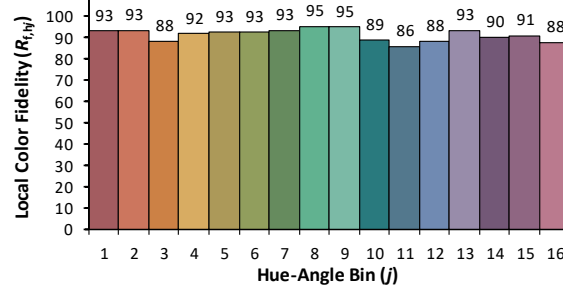
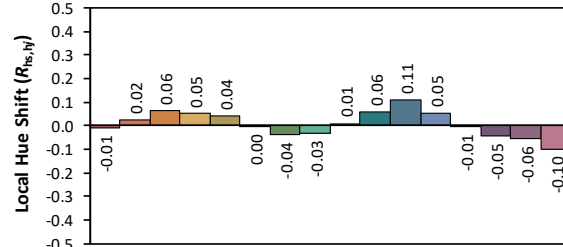
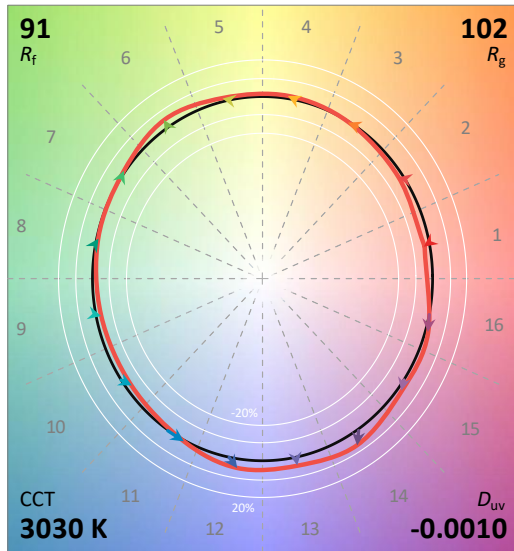
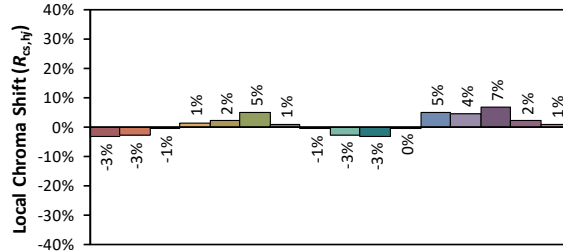
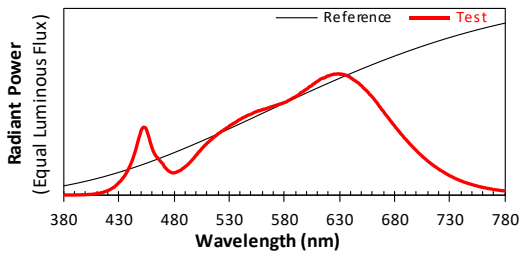
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/12

Model: ARCRMB



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

x 0.4334
 y 0.4004
 u' 0.2499
 v' 0.5194

CIE 13.3-1995 (CRI)
R_a 93
R_9 72

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	3.30E-06	447	4.37E-04	514	4.62E-04	581	7.67E-04	648	9.15E-04	715	2.45E-04
381	3.90E-06	448	4.70E-04	515	4.70E-04	582	7.70E-04	649	9.06E-04	716	2.37E-04
382	1.00E-06	449	4.98E-04	516	4.78E-04	583	7.78E-04	650	9.01E-04	717	2.34E-04
383	2.60E-06	450	5.31E-04	517	4.86E-04	584	7.82E-04	651	8.88E-04	718	2.26E-04
384	2.20E-06	451	5.48E-04	518	4.92E-04	585	7.87E-04	652	8.80E-04	719	2.20E-04
385	2.10E-06	452	5.59E-04	519	4.99E-04	586	7.92E-04	653	8.70E-04	720	2.13E-04
386	2.70E-06	453	5.59E-04	520	5.08E-04	587	7.97E-04	654	8.65E-04	721	2.07E-04
387	1.90E-06	454	5.55E-04	521	5.13E-04	588	8.03E-04	655	8.53E-04	722	2.02E-04
388	2.20E-06	455	5.38E-04	522	5.19E-04	589	8.07E-04	656	8.45E-04	723	1.97E-04
389	2.10E-06	456	5.10E-04	523	5.27E-04	590	8.12E-04	657	8.31E-04	724	1.91E-04
390	3.20E-06	457	4.82E-04	524	5.32E-04	591	8.18E-04	658	8.24E-04	725	1.86E-04
391	2.70E-06	458	4.47E-04	525	5.39E-04	592	8.23E-04	659	8.14E-04	726	1.79E-04
392	3.20E-06	459	4.18E-04	526	5.44E-04	593	8.28E-04	660	8.05E-04	727	1.75E-04
393	3.40E-06	460	3.89E-04	527	5.51E-04	594	8.38E-04	661	7.93E-04	728	1.69E-04
394	3.00E-06	461	3.65E-04	528	5.57E-04	595	8.46E-04	662	7.81E-04	729	1.64E-04
395	3.40E-06	462	3.45E-04	529	5.62E-04	596	8.50E-04	663	7.70E-04	730	1.59E-04
396	4.10E-06	463	3.30E-04	530	5.70E-04	597	8.54E-04	664	7.59E-04	731	1.55E-04
397	4.30E-06	464	3.16E-04	531	5.77E-04	598	8.64E-04	665	7.44E-04	732	1.51E-04
398	4.20E-06	465	3.09E-04	532	5.82E-04	599	8.68E-04	666	7.31E-04	733	1.46E-04
399	4.30E-06	466	2.97E-04	533	5.87E-04	600	8.74E-04	667	7.21E-04	734	1.42E-04
400	4.90E-06	467	2.85E-04	534	5.93E-04	601	8.79E-04	668	7.07E-04	735	1.37E-04
401	5.40E-06	468	2.75E-04	535	5.96E-04	602	8.89E-04	669	6.98E-04	736	1.34E-04
402	6.00E-06	469	2.65E-04	536	6.04E-04	603	8.95E-04	670	6.86E-04	737	1.29E-04
403	7.00E-06	470	2.56E-04	537	6.08E-04	604	8.99E-04	671	6.71E-04	738	1.26E-04
404	7.00E-06	471	2.37E-04	538	6.16E-04	605	9.07E-04	672	6.60E-04	739	1.22E-04
405	7.30E-06	472	2.27E-04	539	6.22E-04	606	9.16E-04	673	6.50E-04	740	1.18E-04
406	8.60E-06	473	2.17E-04	540	6.25E-04	607	9.19E-04	674	6.38E-04	741	1.15E-04
407	9.80E-06	474	2.08E-04	541	6.31E-04	608	9.27E-04	675	6.26E-04	742	1.11E-04
408	1.11E-05	475	1.99E-04	542	6.37E-04	609	9.33E-04	676	6.13E-04	743	1.07E-04
409	1.20E-05	476	1.94E-04	543	6.40E-04	610	9.39E-04	677	6.02E-04	744	1.05E-04
410	1.35E-05	477	1.88E-04	544	6.46E-04	611	9.45E-04	678	5.89E-04	745	1.01E-04
411	1.48E-05	478	1.86E-04	545	6.49E-04	612	9.53E-04	679	5.80E-04	746	9.83E-05
412	1.64E-05	479	1.84E-04	546	6.55E-04	613	9.57E-04	680	5.68E-04	747	9.55E-05
413	1.90E-05	480	1.85E-04	547	6.59E-04	614	9.63E-04	681	5.55E-04	748	9.30E-05
414	2.04E-05	481	1.86E-04	548	6.62E-04	615	9.63E-04	682	5.44E-04	749	9.02E-05
415	2.27E-05	482	1.91E-04	549	6.65E-04	616	9.67E-04	683	5.34E-04	750	8.74E-05
416	2.58E-05	483	1.94E-04	550	6.69E-04	617	9.71E-04	684	5.23E-04	751	8.51E-05
417	2.93E-05	484	1.98E-04	551	6.73E-04	618	9.77E-04	685	5.11E-04	752	8.19E-05
418	3.18E-05	485	2.03E-04	552	6.80E-04	619	9.83E-04	686	5.00E-04	753	8.03E-05
419	3.54E-05	486	2.07E-04	553	6.84E-04	620	9.82E-04	687	4.91E-04	754	7.77E-05
420	3.96E-05	487	2.15E-04	554	6.87E-04	621	9.87E-04	688	4.78E-04	755	7.47E-05
421	4.28E-05	488	2.21E-04	555	6.90E-04	622	9.89E-04	689	4.68E-04	756	7.23E-05
422	4.73E-05	489	2.27E-04	556	6.95E-04	623	9.93E-04	690	4.59E-04	757	7.06E-05
423	5.28E-05	490	2.36E-04	557	6.95E-04	624	9.94E-04	691	4.48E-04	758	6.79E-05
424	5.85E-05	491	2.41E-04	558	6.97E-04	625	9.98E-04	692	4.39E-04	759	6.60E-05
425	6.40E-05	492	2.50E-04	559	7.03E-04	626	9.97E-04	693	4.28E-04	760	6.40E-05
426	6.99E-05	493	2.58E-04	560	7.04E-04	627	9.97E-04	694	4.19E-04	761	6.23E-05
427	7.87E-05	494	2.68E-04	561	7.09E-04	628	1.00E-03	695	4.09E-04	762	6.10E-05
428	8.69E-05	495	2.77E-04	562	7.09E-04	629	9.99E-04	696	4.00E-04	763	5.81E-05
429	9.58E-05	496	2.87E-04	563	7.12E-04	630	9.96E-04	697	3.89E-04	764	5.66E-05
430	1.06E-04	497	2.98E-04	564	7.15E-04	631	9.99E-04	698	3.82E-04	765	5.52E-05
431	1.13E-04	498	3.07E-04	565	7.18E-04	632	9.94E-04	699	3.72E-04	766	5.33E-05
432	1.24E-04	499	3.20E-04	566	7.21E-04	633	9.95E-04	700	3.63E-04	767	5.21E-05
433	1.35E-04	500	3.31E-04	567	7.25E-04	634	9.93E-04	701	3.53E-04	768	5.03E-05
434	1.47E-04	501	3.41E-04	568	7.28E-04	635	9.89E-04	702	3.45E-04	769	4.81E-05
435	1.59E-04	502	3.53E-04	569	7.31E-04	636	9.87E-04	703	3.36E-04	770	4.68E-05
436	1.73E-04	503	3.62E-04	570	7.34E-04	637	9.84E-04	704	3.27E-04	771	4.55E-05
437	1.89E-04	504	3.72E-04	571	7.37E-04	638	9.77E-04	705	3.19E-04	772	4.41E-05
438	2.05E-04	505	3.85E-04	572	7.40E-04	639	9.76E-04	706	3.10E-04	773	4.33E-05
439	2.25E-04	506	3.92E-04	573	7.43E-04	640	9.66E-04	707	3.03E-04	774	4.16E-05
440	2.43E-04	507	4.03E-04	574	7.46E-04	641	9.62E-04	708	2.96E-04	775	4.03E-05
441	2.64E-04	508	4.12E-04	575	7.48E-04	642	9.53E-04	709	2.87E-04	776	3.91E-05
442	2.86E-04	509	4.20E-04	576	7.53E-04	643	9.48E-04	710	2.80E-04	777	3.77E-05
443	3.14E-04	510	4.31E-04	577	7.54E-04	644	9.42E-04	711	2.72E-04	778	3.70E-05
444	3.41E-04	511	4.37E-04	578	7.56E-04	645	9.36E-04	712	2.66E-04	779	3.70E-05
445	3.70E-04	512	4.47E-04	579	7.61E-04	646	9.29E-04	713	2.58E-04	780	3.71E-05
446	4.04E-04	513	4.54E-04	580	7.63E-04	647	9.24E-04	714	2.52E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ARCRMB	Sample ID	250903009-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±1°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	0.079	9.1	0.963
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

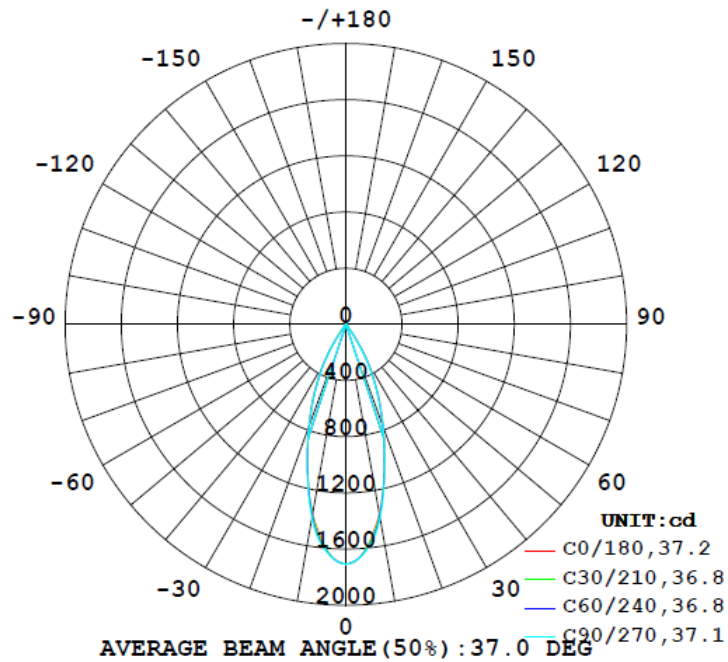
Test Result

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°)
785	67.3	65.7	37.3	37.1	86.3	100.0%

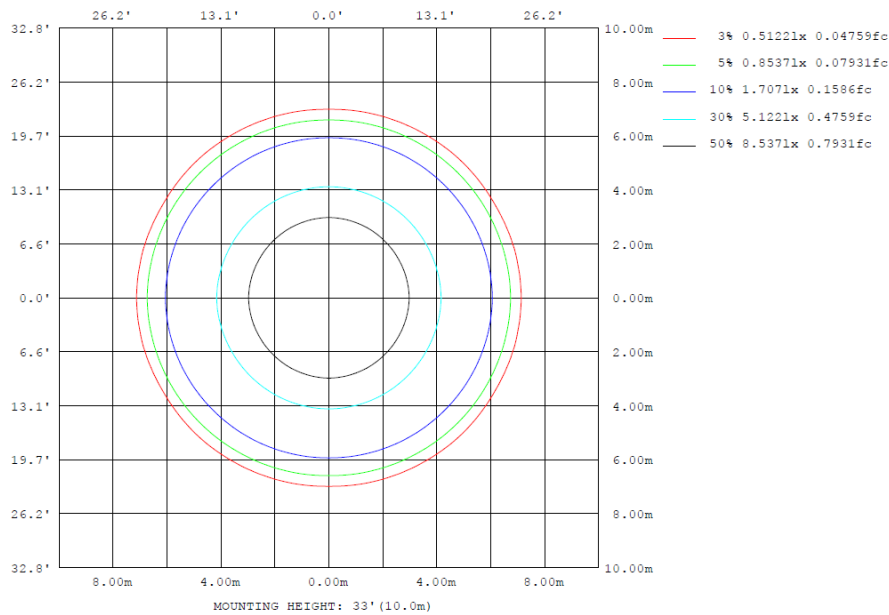
4.2 Goniophotometer Test

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	± zone	± total	%lum, lamp
10	1369	1383	1400	1383	1369	1383	1400	1383	0- 10	146.8	146.8	18.7,18.7
20	779.4	765.9	772.1	765.9	779.4	765.9	772.1	765.9	10- 20	293.2	440.0	56.1,56.1
30	329.0	310.6	299.8	310.6	329.0	310.6	299.8	310.6	20- 30	238.3	678.3	86.5,86.5
40	24.83	24.33	23.11	24.33	24.83	24.33	23.11	24.33	30- 40	73.75	752.0	95.9,95.9
50	18.05	16.93	15.95	16.93	18.05	16.93	15.95	16.93	40- 50	16.00	768.0	97.9,97.9
60	7.799	7.318	6.725	7.318	7.799	7.318	6.725	7.318	50- 60	10.69	778.7	99.3,99.3
70	2.863	2.279	1.775	2.279	2.863	2.279	1.775	2.279	60- 70	4.829	783.5	99.9,99.9
80	0.4165	0.3670	0.3479	0.3670	0.4165	0.3670	0.3479	0.3670	70- 80	0.8734	784.4	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.1686	784.6	100,100
100	0	0	0	0	0	0	0	0	90-100	0	784.6	100,100
110	0	0	0	0	0	0	0	0	100-110	0	784.6	100,100
120	0	0	0	0	0	0	0	0	110-120	0	784.6	100,100
130	0	0	0	0	0	0	0	0	120-130	0	784.6	100,100
140	0	0	0	0	0	0	0	0	130-140	0	784.6	100,100
150	0	0	0	0	0	0	0	0	140-150	0	784.6	100,100
160	0	0	0	0	0	0	0	0	150-160	0	784.6	100,100
170	0	0	0	0	0	0	0	0	160-170	0	784.6	100,100
180	0	0	0	0	0	0	0	0	170-180	0	784.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

	Zonal (lm)		Total (lm)	Percent
0-10	146.79	0-10	146.79	18.71%
10-20	293.18	0-20	439.97	56.08%
20-30	238.32	0-30	678.29	86.45%
30-40	73.75	0-40	752.04	95.85%
40-50	16.00	0-50	768.04	97.89%
50-60	10.69	0-60	778.73	99.25%
60-70	4.83	0-70	783.56	99.87%
70-80	0.87	0-80	784.43	99.98%
80-90	0.17	0-90	784.60	100.00%
90-100	0.00	0-100	784.60	100.00%
100-110	0.00	0-110	784.60	100.00%
110-120	0.00	0-120	784.60	100.00%
120-130	0.00	0-130	784.60	100.00%
130-140	0.00	0-140	784.60	100.00%
140-150	0.00	0-150	784.60	100.00%
150-160	0.00	0-160	784.60	100.00%
160-170	0.00	0-170	784.60	100.00%
170-180	0.00	0-180	784.60	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	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707
5	1609	1608	1610	1613	1617	1619	1622	1619	1617	1613	1610	1608	1609	1608	1610	1613	1617	1619	1622	1619
10	1369	1373	1378	1383	1387	1392	1400	1392	1387	1383	1378	1373	1369	1373	1378	1383	1387	1392	1400	1392
15	1066	1061	1057	1058	1062	1065	1070	1065	1062	1058	1057	1061	1066	1061	1057	1058	1062	1065	1070	1065
20	779	773	767	766	768	770	772	770	768	766	767	773	779	773	767	766	768	770	772	770
25	537	530	523	520	519	518	518	518	519	520	523	530	537	530	523	520	519	518	518	518
30	329	322	317	311	306	302	300	302	306	311	317	322	329	322	317	311	306	302	300	300
35	107	105	100	100	96.6	93.9	91.6	93.9	96.6	100	100	105	107	105	100	100	96.6	93.9	91.6	91.6
40	24.8	25.1	24.8	24.3	23.9	23.4	23.1	23.4	23.9	24.3	24.8	25.1	24.8	25.1	24.8	24.3	23.9	23.4	23.1	23.1
45	21.7	21.6	21.3	20.9	20.5	20.2	19.8	20.2	20.5	20.9	21.3	21.6	21.7	21.6	21.3	20.9	20.5	20.2	19.8	19.8
50	18.0	17.7	17.4	16.9	16.5	16.2	15.9	16.2	16.5	16.9	17.4	17.7	18.0	17.7	17.4	16.9	16.5	16.2	15.9	15.9
55	12.8	12.6	12.3	11.9	11.7	11.4	11.2	11.4	11.7	11.9	12.3	12.6	12.8	12.6	12.3	11.9	11.7	11.4	11.2	11.2
60	7.80	7.68	7.49	7.32	7.16	6.91	6.72	6.91	7.16	7.32	7.49	7.68	7.80	7.68	7.49	7.32	7.16	6.91	6.72	6.72
65	5.24	5.15	5.08	4.99	4.85	4.67	4.58	4.67	4.85	4.99	5.08	5.15	5.24	5.15	5.08	4.99	4.85	4.67	4.58	4.58
70	2.86	2.66	2.48	2.28	2.10	1.95	1.77	1.95	2.10	2.28	2.48	2.66	2.86	2.66	2.48	2.28	2.10	1.95	1.77	1.77
75	0.77	0.74	0.71	0.69	0.67	0.66	0.65	0.66	0.67	0.69	0.71	0.74	0.77	0.74	0.71	0.69	0.67	0.66	0.65	0.65
80	0.42	0.40	0.38	0.37	0.36	0.35	0.35	0.35	0.36	0.37	0.38	0.40	0.42	0.40	0.38	0.37	0.36	0.35	0.35	0.35
85	0.16	0.16	0.15	0.14	0.13	0.13	0.13	0.13	0.14	0.15	0.16	0.16	0.16	0.16	0.15	0.14	0.13	0.13	0.13	0.13
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00

Table--2 UNIT: cd

C (DEG) \ y (DEG)	285	300	315	330	345																
0	1707	1707	1707	1707	1707																
5	1619	1617	1613	1610	1608																
10	1392	1387	1383	1378	1373																
15	1065	1062	1058	1057	1061																
20	770	768	766	767	773																
25	518	519	520	523	530																
30	302	306	311	317	322																
35	93.9	96.6	100	100	105																
40	23.4	23.9	24.3	24.8	25.1																
45	20.2	20.5	20.9	21.3	21.6																
50	16.2	16.5	16.9	17.4	17.7																
55	11.4	11.7	11.9	12.3	12.6																
60	6.91	7.16	7.32	7.49	7.68																
65	4.67	4.85	4.99	5.08	5.15																
70	1.95	2.10	2.28	2.48	2.66																
75	0.66	0.67	0.69	0.71	0.74																
80	0.35	0.36	0.37	0.38	0.40																
85	0.13	0.13	0.14	0.15	0.16																
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.	ARCRMB	Sample ID	250903009-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	0.079	9.1	0.963	13.35

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*****