

## Photometric Test Report

### Relevant Standards

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

Prepared For

**RAB Lighting Inc.**

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Prepared By

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Revised Date: N/A

## 1.0 Test Summary

DLC Technical Requirements V6.0

Track Mount Luminaires				
Requirement Category	Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	250		837
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Standard	Premium	82.1
		95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Worst Case		10.2
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	6.30
Power Factor (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.985
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019	7 steps	3045±175	3030
		4 steps	3045±100	
Minimum CRI (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019 CIE13.3-1995	≥80		92.7
Minimum R9 (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019 CIE13.3-1995	≥0		70
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		101
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		0.086
(Goniophotometer – Section 4.2)		Non-Worst Case		N/A
Power (Input Wattage – W)				
(Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Worst Case		10.2
(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	ARCB	-	250903007-S1
2	Goniophotometer Test	2025-09-04	ARCB	-	250903007-S1
3	THD and PF Test	2025-09-04	ARCB	-	250903007-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. ARCB, 3000K.

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>	ARCB	<b>Sample ID</b>	250903007-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

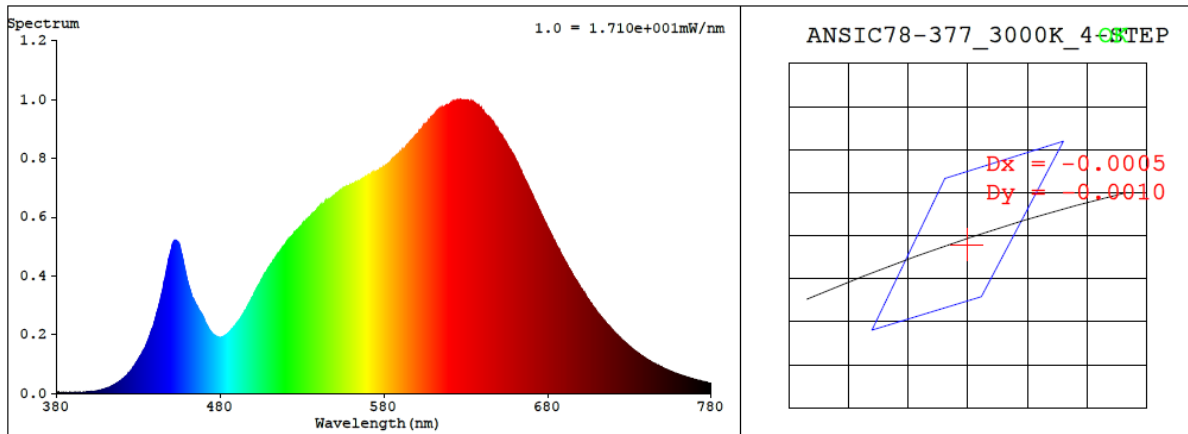
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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 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	0.086	10.2	0.985

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3030	92.7	70	-0.0003	0.7	91	101	-4%

### 4.1 Integrating Sphere Test



#### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4344$   $y = 0.4024$  /  $u' = 0.2496$   $v' = 0.5203$  ( $duv = -3.28e-04$ )

CCT= 3030K Prcp WL:  $L_d = 582.8\text{nm}$  Purity=51.1%

Peak WL:  $L_p = 627\text{nm}$  FWHM: =166.6nm Ratio:R=24.1% G=73.3% B=2.6%

Render Index:  $R_a = 92.7$  AvgR = 89.8 TM30:Rf=92 Rg=101

EEl: 0.15230 A+

R1 =94 R2 =95 R3 =93 R4 =93 R5 =92 R6 =92 R7 =95  
R8 =88 R9 =70 R10=85 R11=93 R12=77 R13=94 R14=95 R15=92

### 4.1 Integrating Sphere Test

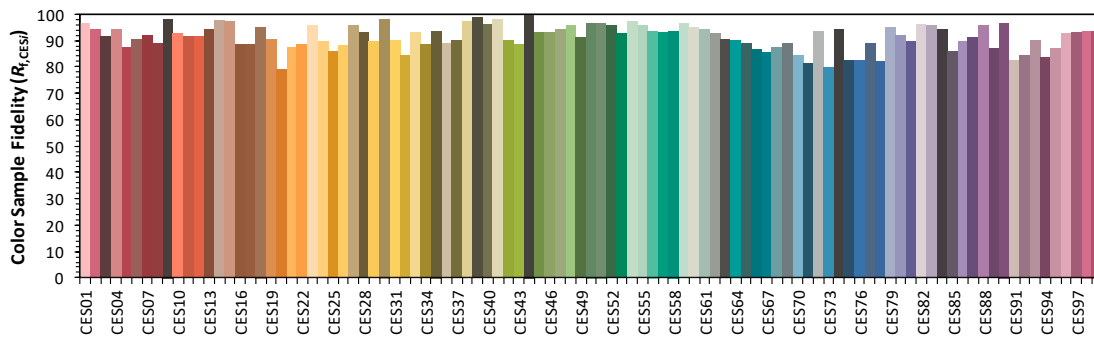
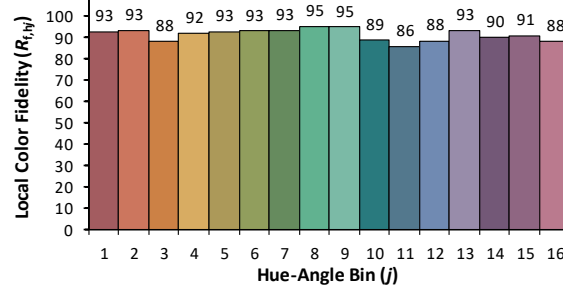
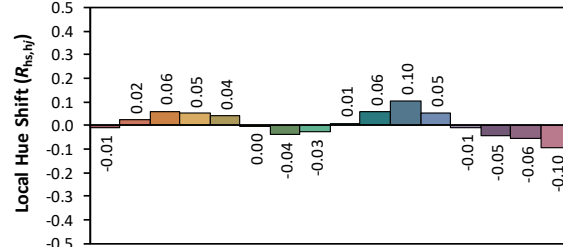
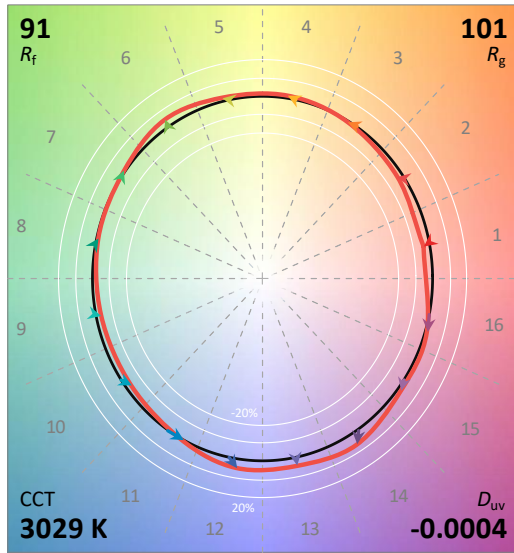
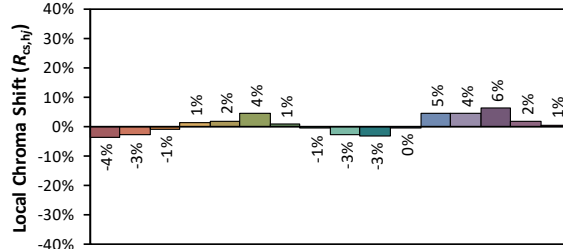
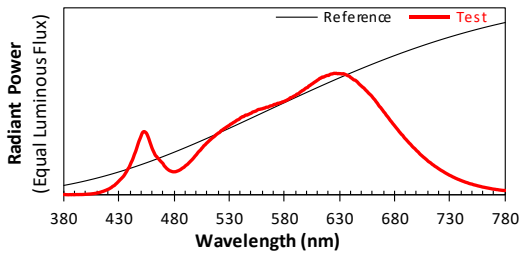
### ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/12

Model: ARCB



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

$x$  0.4343  
 $y$  0.4023  
 $u'$  0.2497  
 $v'$  0.5203

CIE 13.3-1995  
(CRI)  
 $R_a$  93  
 $R_g$  70

### 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	4.00E-06	447	4.12E-04	514	4.64E-04	581	7.74E-04	648	9.08E-04	715	2.45E-04
381	4.20E-06	448	4.39E-04	515	4.71E-04	582	7.78E-04	649	9.00E-04	716	2.38E-04
382	2.80E-06	449	4.61E-04	516	4.78E-04	583	7.84E-04	650	8.92E-04	717	2.32E-04
383	2.70E-06	450	4.84E-04	517	4.86E-04	584	7.88E-04	651	8.84E-04	718	2.27E-04
384	2.10E-06	451	5.07E-04	518	4.95E-04	585	7.97E-04	652	8.77E-04	719	2.20E-04
385	2.60E-06	452	5.18E-04	519	5.01E-04	586	8.00E-04	653	8.67E-04	720	2.14E-04
386	3.20E-06	453	5.20E-04	520	5.09E-04	587	8.03E-04	654	8.57E-04	721	2.08E-04
387	2.40E-06	454	5.15E-04	521	5.12E-04	588	8.10E-04	655	8.49E-04	722	2.02E-04
388	3.90E-06	455	5.05E-04	522	5.23E-04	589	8.14E-04	656	8.38E-04	723	1.97E-04
389	2.30E-06	456	4.85E-04	523	5.31E-04	590	8.18E-04	657	8.29E-04	724	1.91E-04
390	2.90E-06	457	4.62E-04	524	5.36E-04	591	8.27E-04	658	8.21E-04	725	1.85E-04
391	3.50E-06	458	4.35E-04	525	5.43E-04	592	8.30E-04	659	8.12E-04	726	1.80E-04
392	3.80E-06	459	4.09E-04	526	5.48E-04	593	8.34E-04	660	8.00E-04	727	1.75E-04
393	3.50E-06	460	3.83E-04	527	5.55E-04	594	8.44E-04	661	7.89E-04	728	1.70E-04
394	3.70E-06	461	3.63E-04	528	5.61E-04	595	8.49E-04	662	7.79E-04	729	1.65E-04
395	3.90E-06	462	3.44E-04	529	5.67E-04	596	8.57E-04	663	7.66E-04	730	1.60E-04
396	3.70E-06	463	3.25E-04	530	5.72E-04	597	8.61E-04	664	7.55E-04	731	1.56E-04
397	4.20E-06	464	3.17E-04	531	5.81E-04	598	8.67E-04	665	7.40E-04	732	1.51E-04
398	4.60E-06	465	3.05E-04	532	5.84E-04	599	8.75E-04	666	7.27E-04	733	1.47E-04
399	5.30E-06	466	2.96E-04	533	5.91E-04	600	8.80E-04	667	7.19E-04	734	1.43E-04
400	6.00E-06	467	2.85E-04	534	5.97E-04	601	8.83E-04	668	7.07E-04	735	1.38E-04
401	6.50E-06	468	2.75E-04	535	6.01E-04	602	8.95E-04	669	6.95E-04	736	1.34E-04
402	7.00E-06	469	2.66E-04	536	6.08E-04	603	8.99E-04	670	6.82E-04	737	1.30E-04
403	7.60E-06	470	2.56E-04	537	6.15E-04	604	9.07E-04	671	6.72E-04	738	1.27E-04
404	8.10E-06	471	2.40E-04	538	6.18E-04	605	9.12E-04	672	6.58E-04	739	1.23E-04
405	9.00E-06	472	2.30E-04	539	6.23E-04	606	9.18E-04	673	6.47E-04	740	1.19E-04
406	1.03E-05	473	2.20E-04	540	6.32E-04	607	9.25E-04	674	6.36E-04	741	1.15E-04
407	1.12E-05	474	2.12E-04	541	6.38E-04	608	9.31E-04	675	6.23E-04	742	1.12E-04
408	1.29E-05	475	2.05E-04	542	6.43E-04	609	9.37E-04	676	6.10E-04	743	1.09E-04
409	1.42E-05	476	2.00E-04	543	6.44E-04	610	9.44E-04	677	6.00E-04	744	1.05E-04
410	1.58E-05	477	1.96E-04	544	6.52E-04	611	9.49E-04	678	5.87E-04	745	1.02E-04
411	1.83E-05	478	1.93E-04	545	6.57E-04	612	9.58E-04	679	5.77E-04	746	9.97E-05
412	1.98E-05	479	1.91E-04	546	6.56E-04	613	9.59E-04	680	5.65E-04	747	9.57E-05
413	2.29E-05	480	1.91E-04	547	6.61E-04	614	9.68E-04	681	5.54E-04	748	9.29E-05
414	2.55E-05	481	1.91E-04	548	6.65E-04	615	9.67E-04	682	5.43E-04	749	9.07E-05
415	2.88E-05	482	1.94E-04	549	6.69E-04	616	9.71E-04	683	5.32E-04	750	8.91E-05
416	3.12E-05	483	1.97E-04	550	6.73E-04	617	9.76E-04	684	5.19E-04	751	8.50E-05
417	3.52E-05	484	2.00E-04	551	6.81E-04	618	9.80E-04	685	5.09E-04	752	8.29E-05
418	3.84E-05	485	2.05E-04	552	6.83E-04	619	9.82E-04	686	4.98E-04	753	8.07E-05
419	4.25E-05	486	2.10E-04	553	6.86E-04	620	9.82E-04	687	4.90E-04	754	7.83E-05
420	4.65E-05	487	2.18E-04	554	6.89E-04	621	9.89E-04	688	4.77E-04	755	7.56E-05
421	5.01E-05	488	2.23E-04	555	6.95E-04	622	9.93E-04	689	4.66E-04	756	7.35E-05
422	5.62E-05	489	2.29E-04	556	7.01E-04	623	9.94E-04	690	4.57E-04	757	7.13E-05
423	6.10E-05	490	2.38E-04	557	7.03E-04	624	9.96E-04	691	4.47E-04	758	6.93E-05
424	6.88E-05	491	2.45E-04	558	7.04E-04	625	9.99E-04	692	4.37E-04	759	6.64E-05
425	7.44E-05	492	2.51E-04	559	7.07E-04	626	9.98E-04	693	4.26E-04	760	6.46E-05
426	7.96E-05	493	2.61E-04	560	7.08E-04	627	9.99E-04	694	4.18E-04	761	6.32E-05
427	8.92E-05	494	2.70E-04	561	7.13E-04	628	9.95E-04	695	4.08E-04	762	6.12E-05
428	9.68E-05	495	2.79E-04	562	7.13E-04	629	9.97E-04	696	3.97E-04	763	5.93E-05
429	1.06E-04	496	2.88E-04	563	7.19E-04	630	9.96E-04	697	3.88E-04	764	5.77E-05
430	1.16E-04	497	2.98E-04	564	7.21E-04	631	9.96E-04	698	3.81E-04	765	5.60E-05
431	1.25E-04	498	3.09E-04	565	7.21E-04	632	9.94E-04	699	3.71E-04	766	5.41E-05
432	1.34E-04	499	3.20E-04	566	7.26E-04	633	9.96E-04	700	3.61E-04	767	5.25E-05
433	1.43E-04	500	3.30E-04	567	7.31E-04	634	9.94E-04	701	3.54E-04	768	5.03E-05
434	1.53E-04	501	3.42E-04	568	7.32E-04	635	9.90E-04	702	3.44E-04	769	4.87E-05
435	1.66E-04	502	3.54E-04	569	7.34E-04	636	9.86E-04	703	3.34E-04	770	4.77E-05
436	1.81E-04	503	3.62E-04	570	7.40E-04	637	9.81E-04	704	3.26E-04	771	4.66E-05
437	1.95E-04	504	3.71E-04	571	7.44E-04	638	9.78E-04	705	3.18E-04	772	4.46E-05
438	2.12E-04	505	3.83E-04	572	7.44E-04	639	9.73E-04	706	3.10E-04	773	4.41E-05
439	2.25E-04	506	3.93E-04	573	7.49E-04	640	9.64E-04	707	3.03E-04	774	4.22E-05
440	2.45E-04	507	4.05E-04	574	7.53E-04	641	9.58E-04	708	2.95E-04	775	4.09E-05
441	2.66E-04	508	4.12E-04	575	7.52E-04	642	9.51E-04	709	2.87E-04	776	3.98E-05
442	2.84E-04	509	4.22E-04	576	7.57E-04	643	9.44E-04	710	2.78E-04	777	3.86E-05
443	3.08E-04	510	4.31E-04	577	7.59E-04	644	9.43E-04	711	2.71E-04	778	3.75E-05
444	3.34E-04	511	4.39E-04	578	7.64E-04	645	9.36E-04	712	2.66E-04	779	3.74E-05
445	3.56E-04	512	4.47E-04	579	7.66E-04	646	9.28E-04	713	2.59E-04	780	3.75E-05
446	3.83E-04	513	4.55E-04	580	7.70E-04	647	9.17E-04	714	2.51E-04	N/A	N/A

## 4.0 LM-79 Measurement and Test Results

### 4.2 Goniophotometer Test

<b>Model No.</b>	ARCB	<b>Sample ID</b>	250903007-S1
<b>Operate time (Min.)</b>	30	<b>Stabilization time (Min.)</b>	60
<b>Temperature (°C)</b>	25.0	<b>Humidity (%RH)</b>	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
<b>WORST CASE</b>	120.0	60	0.086	10.2	0.985
<b>NON-WORST CASE</b>	N/A	N/A	N/A	N/A	N/A

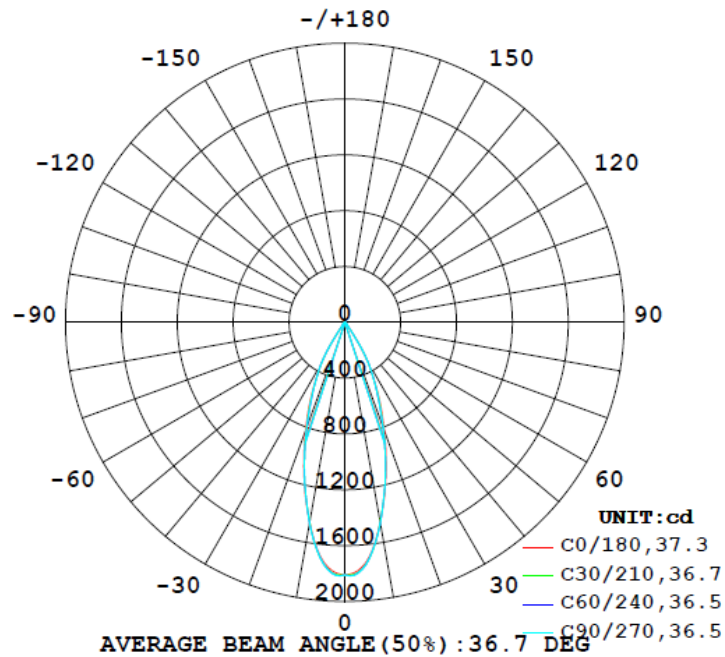
#### Test Result

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°)
837	66.6	66.2	37.2	36.5	82.1	100.0%

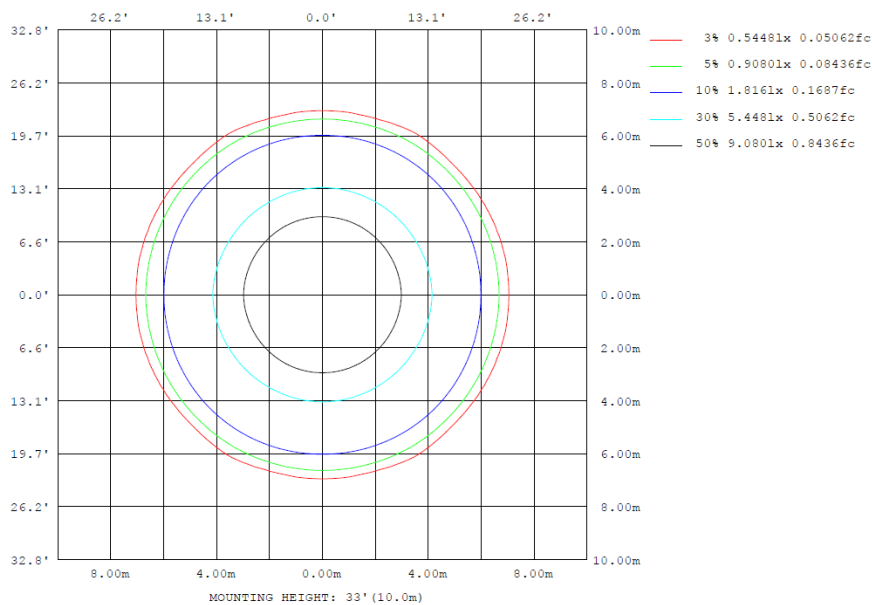
## 4.2 Goniophotometer Test

### 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	%lum, lamp
10	1457	1459	1461	1459	1457	1459	1461	1459	0- 10	156.7	156.7	18.7,18.7
20	827.3	798.2	798.2	798.2	827.3	798.2	798.2	798.2	10- 20	309.3	466.0	55.7,55.7
30	333.6	342.0	338.6	342.0	333.6	342.0	338.6	342.0	20- 30	249.1	715.0	85.5,85.5
40	28.79	31.38	30.79	31.38	28.79	31.38	30.79	31.38	30- 40	79.55	794.6	95,95
50	19.84	21.07	21.04	21.07	19.84	21.07	21.04	21.07	40- 50	19.46	814.0	97.3,97.3
60	9.525	10.27	9.959	10.27	9.525	10.27	9.959	10.27	50- 60	13.74	827.8	99,99
70	3.497	4.205	4.108	4.205	3.497	4.205	4.108	4.205	60- 70	6.708	834.5	99.8,99.8
80	0.6282	0.7003	0.6948	0.7003	0.6282	0.7003	0.6948	0.7003	70- 80	1.668	836.2	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.3426	836.5	100,100
100	0	0	0	0	0	0	0	0	90-100	0	836.5	100,100
110	0	0	0	0	0	0	0	0	100-110	0	836.5	100,100
120	0	0	0	0	0	0	0	0	110-120	0	836.5	100,100
130	0	0	0	0	0	0	0	0	120-130	0	836.5	100,100
140	0	0	0	0	0	0	0	0	130-140	0	836.5	100,100
150	0	0	0	0	0	0	0	0	140-150	0	836.5	100,100
160	0	0	0	0	0	0	0	0	150-160	0	836.5	100,100
170	0	0	0	0	0	0	0	0	160-170	0	836.5	100,100
180	0	0	0	0	0	0	0	0	170-180	0	836.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

	Zonal (lm)		Total (lm)	Percent
0-10	156.70	0-10	156.70	18.73%
10-20	309.28	0-20	465.98	55.71%
20-30	249.06	0-30	715.04	85.48%
30-40	79.55	0-40	794.59	94.99%
40-50	19.46	0-50	814.05	97.32%
50-60	13.74	0-60	827.79	98.96%
60-70	6.71	0-70	834.50	99.76%
70-80	1.67	0-80	836.17	99.96%
80-90	0.34	0-90	836.51	100.00%
90-100	0.00	0-100	836.51	100.00%
100-110	0.00	0-110	836.51	100.00%
110-120	0.00	0-120	836.51	100.00%
120-130	0.00	0-130	836.51	100.00%
130-140	0.00	0-140	836.51	100.00%
140-150	0.00	0-150	836.51	100.00%
150-160	0.00	0-160	836.51	100.00%
160-170	0.00	0-170	836.51	100.00%
170-180	0.00	0-180	836.51	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	1809	1809	1809	1809	1809	1809	1810	1809	1809	1809	1809	1809	1809	1809	1809	1809	1809	1809	1809	1810
5	1727	1736	1739	1741	1741	1741	1740	1741	1741	1741	1739	1736	1727	1736	1739	1741	1741	1741	1741	1740
10	1457	1457	1455	1459	1461	1462	1461	1462	1461	1459	1455	1457	1457	1455	1455	1459	1461	1462	1461	1461
15	1135	1127	1124	1122	1125	1125	1122	1125	1125	1122	1124	1127	1135	1127	1124	1122	1125	1125	1125	1122
20	827	814	804	798	797	796	798	796	797	798	804	814	827	814	804	798	797	796	798	798
25	563	556	544	538	536	538	541	538	536	538	544	556	563	556	544	538	536	538	541	541
30	334	335	338	342	342	340	339	340	342	342	338	335	334	335	338	342	342	340	339	339
35	103	101	96.6	90.7	105	85.7	89.5	85.7	105	90.7	96.6	101	103	101	96.6	90.7	105	85.7	89.5	89.5
40	28.8	30.2	30.8	31.4	31.6	31.4	30.8	31.4	31.6	31.4	30.8	30.2	28.8	30.2	30.8	31.4	31.6	31.4	30.8	30.8
45	23.6	24.3	24.9	25.4	25.7	25.7	25.3	25.7	25.7	25.4	24.9	24.3	23.6	24.3	24.9	25.4	25.7	25.7	25.3	25.3
50	19.8	20.3	20.7	21.1	21.4	21.4	21.0	21.4	21.4	21.1	20.7	20.3	19.8	20.3	20.7	21.1	21.4	21.4	21.0	21.0
55	14.6	15.1	15.3	15.6	15.7	15.6	15.4	15.6	15.7	15.6	15.3	15.1	14.6	15.1	15.3	15.6	15.7	15.6	15.4	15.4
60	9.53	9.86	10.1	10.3	10.3	10.2	9.96	10.2	10.3	10.3	10.1	9.86	9.53	9.86	10.1	10.3	10.3	10.2	9.96	9.96
65	6.31	6.54	6.69	6.77	6.79	6.74	6.62	6.74	6.79	6.77	6.69	6.54	6.31	6.54	6.69	6.77	6.79	6.74	6.62	6.62
70	3.50	3.88	4.08	4.21	4.30	4.19	4.11	4.19	4.30	4.21	4.08	3.88	3.50	3.88	4.08	4.21	4.30	4.19	4.11	4.11
75	1.14	1.19	1.23	1.25	1.26	1.25	1.23	1.25	1.26	1.25	1.23	1.19	1.14	1.19	1.23	1.25	1.26	1.25	1.23	1.23
80	0.63	0.66	0.69	0.70	0.71	0.71	0.69	0.71	0.71	0.70	0.69	0.66	0.63	0.66	0.69	0.70	0.71	0.71	0.69	0.69
85	0.25	0.28	0.30	0.31	0.31	0.31	0.30	0.31	0.31	0.31	0.30	0.28	0.25	0.28	0.30	0.31	0.31	0.31	0.30	0.30
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	1809	1809	1809	1809	1809																
5	1741	1741	1741	1739	1736																
10	1462	1461	1459	1455	1457																
15	1125	1125	1122	1124	1127																
20	796	797	798	804	814																
25	538	536	538	544	556																
30	340	342	342	338	335																
35	85.7	105	90.7	96.6	101																
40	31.4	31.6	31.4	30.8	30.2																
45	25.7	25.7	25.4	24.9	24.3																
50	21.4	21.4	21.1	20.7	20.3																
55	15.6	15.7	15.6	15.3	15.1																
60	10.2	10.3	10.3	10.1	9.86																
65	6.74	6.79	6.77	6.69	6.54																
70	4.19	4.30	4.21	4.08	3.88																
75	1.25	1.26	1.25	1.23	1.19																
80	0.71	0.71	0.70	0.69	0.66																
85	0.31	0.31	0.31	0.30	0.28																
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>	ARCB	<b>Sample ID</b>	250903007-S1
<b>Temperature (°C)</b>	25.4	<b>Humidity (%RH)</b>	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	0.086	10.2	0.985	6.30

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