

## Photometric Test Report

### Relevant Standards

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

Prepared For

**RAB Lighting Inc.**

Address: 408 W 14th St New York, NY 10014

Prepared By

**Dongguan New Testing Centre Co., Ltd.**

Address: 3F No. 1 the 1st North Industry Road, Songshan Lake Science & Technology Park, Dongguan, Guangdong, China

Prepare by:

*Alan Wang*

Engineer: Alan Wang

Date: 2025-09-17

Review by:

*Vincent Yuan*

Technical Lead: Vincent Yuan

Issue Date: 2025-09-17

Revised Date: N/A

## 1.0 Test Summary

DLC Technical Requirements V6.0

Linear Ceiling Mount Luminaires					
Requirement Category		Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	250		1068
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	89.7
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		11.9
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	10.73
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	2997
			4 steps	3045±100	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		92.9
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		58
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		96
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		0.101
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		11.9
(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	2025-09-15	COL12LM2 @3000K Black trim	-	250903016-S1
2	Goniophotometer Test	2025-09-15	COL12LM2 @3000K Black trim	-	250903016-S1
3	THD and PF Test	2025-09-15	COL12LM2 @3000K Black trim	-	250903016-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. COL12LM2 @3000K Black trim, 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

<b>Model No.</b>	COL12LM2 @3000K Black trim	<b>Sample ID</b>	250903016-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

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  $25 \pm 1^\circ\text{C}$ .

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  $\pm 0.2$  percent under load.

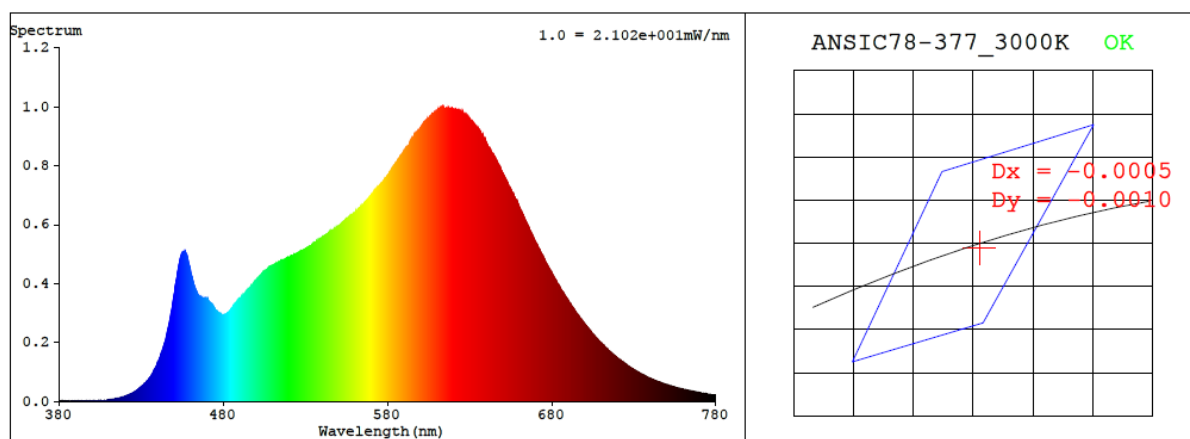
The sample was measured using  $4\pi$  geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380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

#### Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.101	11.9	0.985

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
2997	92.9	58	-0.0003	1.8	91	96	-5%

### 4.1 Integrating Sphere Test



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4367$   $y = 0.4032$  /  $u' = 0.2508$   $v' = 0.5210$  ( $duv = -3.19e-04$ )

CCT= 2997K      Prcp WL:    Ld=583.0nm      Purity=52.1%

Peak WL: Lp=614nm FWHM: =150.7nm Ratio:R=24.7% G=71.9% B=3.4%

Render Index: Ra = 92.9 AvgR = 91.1 TM30:Rf=91 Rg=97

EEI: 0.15261 A+

R1 =95    R2 =100    R3 =95    R4 =93    R5 =95    R6 =96    R7 =89

R8 =80      R9 =58      R10=99      R11=96      R12=84      R13=97      R14=98      R15=90



## 4.1 Integrating Sphere Test

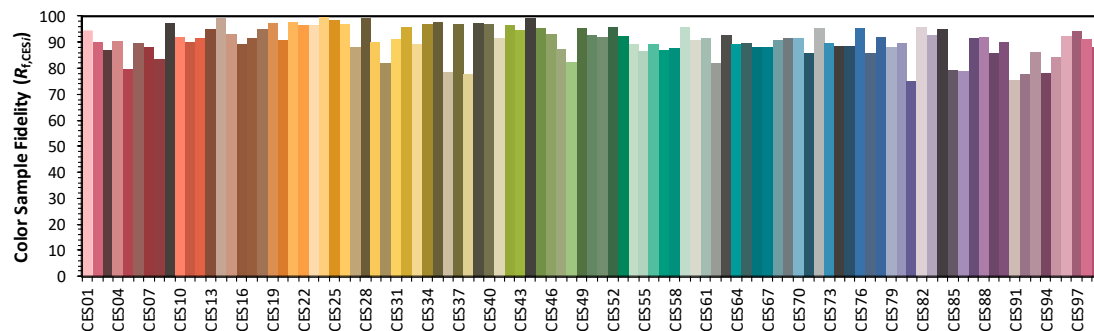
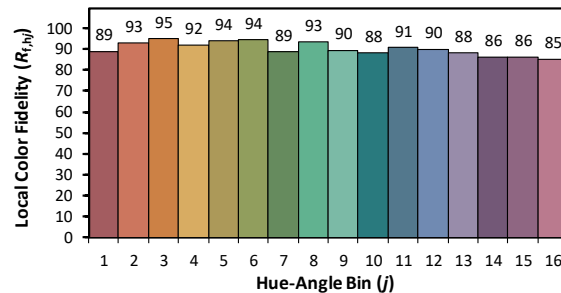
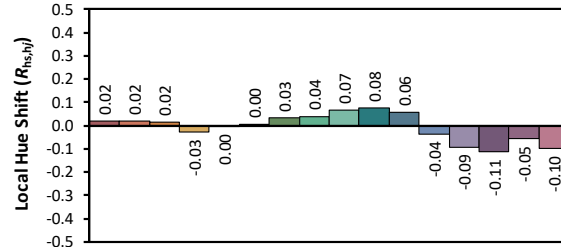
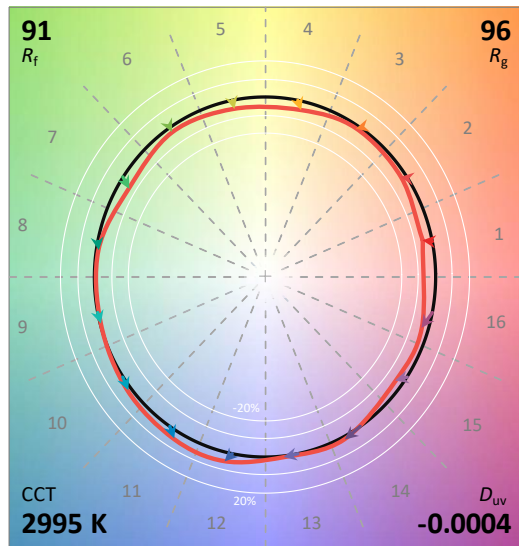
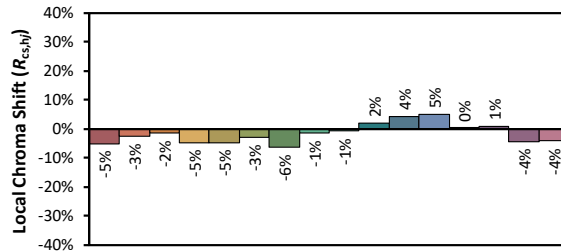
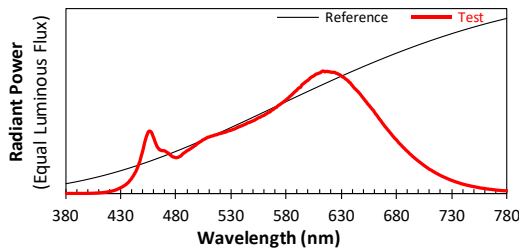
### ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/17

Model: COL12LM2 @3000K Black trim



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

$x$  0.4367

$y$  0.4031

$u'$  0.2509

$v'$  0.5210

CIE 13.3-1995  
(CRI)

$R_a$  93

$R_g$  58

## 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	1.60E-06	447	2.62E-04	514	4.73E-04	581	7.74E-04	648	7.99E-04	715	1.71E-04
381	1.30E-06	448	2.96E-04	515	4.78E-04	582	7.81E-04	649	7.88E-04	716	1.67E-04
382	1.40E-06	449	3.27E-04	516	4.79E-04	583	7.91E-04	650	7.76E-04	717	1.62E-04
383	1.20E-06	450	3.60E-04	517	4.81E-04	584	7.98E-04	651	7.65E-04	718	1.57E-04
384	2.00E-06	451	4.00E-04	518	4.84E-04	585	8.06E-04	652	7.53E-04	719	1.52E-04
385	1.70E-06	452	4.35E-04	519	4.89E-04	586	8.16E-04	653	7.43E-04	720	1.48E-04
386	1.80E-06	453	4.64E-04	520	4.89E-04	587	8.24E-04	654	7.29E-04	721	1.43E-04
387	1.00E-06	454	4.88E-04	521	4.93E-04	588	8.33E-04	655	7.21E-04	722	1.39E-04
388	1.40E-06	455	5.07E-04	522	4.94E-04	589	8.39E-04	656	7.09E-04	723	1.35E-04
389	1.80E-06	456	5.09E-04	523	4.98E-04	590	8.50E-04	657	6.99E-04	724	1.31E-04
390	1.80E-06	457	5.06E-04	524	5.00E-04	591	8.59E-04	658	6.87E-04	725	1.27E-04
391	1.90E-06	458	4.93E-04	525	5.02E-04	592	8.64E-04	659	6.78E-04	726	1.23E-04
392	1.90E-06	459	4.68E-04	526	5.06E-04	593	8.69E-04	660	6.64E-04	727	1.19E-04
393	1.40E-06	460	4.47E-04	527	5.11E-04	594	8.85E-04	661	6.50E-04	728	1.15E-04
394	1.90E-06	461	4.20E-04	528	5.12E-04	595	8.93E-04	662	6.40E-04	729	1.12E-04
395	1.50E-06	462	3.98E-04	529	5.15E-04	596	9.00E-04	663	6.27E-04	730	1.09E-04
396	1.70E-06	463	3.79E-04	530	5.18E-04	597	9.08E-04	664	6.14E-04	731	1.05E-04
397	1.90E-06	464	3.69E-04	531	5.21E-04	598	9.15E-04	665	6.02E-04	732	1.02E-04
398	2.40E-06	465	3.58E-04	532	5.25E-04	599	9.20E-04	666	5.92E-04	733	9.82E-05
399	2.20E-06	466	3.55E-04	533	5.27E-04	600	9.27E-04	667	5.77E-04	734	9.49E-05
400	2.40E-06	467	3.50E-04	534	5.31E-04	601	9.37E-04	668	5.66E-04	735	9.27E-05
401	2.80E-06	468	3.51E-04	535	5.37E-04	602	9.44E-04	669	5.53E-04	736	8.95E-05
402	3.00E-06	469	3.50E-04	536	5.40E-04	603	9.51E-04	670	5.42E-04	737	8.65E-05
403	3.00E-06	470	3.47E-04	537	5.46E-04	604	9.56E-04	671	5.32E-04	738	8.38E-05
404	3.30E-06	471	3.41E-04	538	5.47E-04	605	9.60E-04	672	5.20E-04	739	8.03E-05
405	3.40E-06	472	3.35E-04	539	5.52E-04	606	9.68E-04	673	5.11E-04	740	7.86E-05
406	4.40E-06	473	3.30E-04	540	5.55E-04	607	9.74E-04	674	4.99E-04	741	7.57E-05
407	4.40E-06	474	3.20E-04	541	5.60E-04	608	9.77E-04	675	4.88E-04	742	7.35E-05
408	4.80E-06	475	3.14E-04	542	5.63E-04	609	9.80E-04	676	4.77E-04	743	7.15E-05
409	5.10E-06	476	3.06E-04	543	5.67E-04	610	9.84E-04	677	4.66E-04	744	6.87E-05
410	6.00E-06	477	3.00E-04	544	5.72E-04	611	9.86E-04	678	4.56E-04	745	6.69E-05
411	6.50E-06	478	2.98E-04	545	5.77E-04	612	9.95E-04	679	4.46E-04	746	6.52E-05
412	7.30E-06	479	2.95E-04	546	5.79E-04	613	9.99E-04	680	4.38E-04	747	6.26E-05
413	8.10E-06	480	2.93E-04	547	5.82E-04	614	9.99E-04	681	4.26E-04	748	6.09E-05
414	9.10E-06	481	2.94E-04	548	5.87E-04	615	9.93E-04	682	4.16E-04	749	5.89E-05
415	1.01E-05	482	2.97E-04	549	5.91E-04	616	9.96E-04	683	4.06E-04	750	5.71E-05
416	1.15E-05	483	3.02E-04	550	5.94E-04	617	9.97E-04	684	3.97E-04	751	5.58E-05
417	1.25E-05	484	3.06E-04	551	5.98E-04	618	9.93E-04	685	3.88E-04	752	5.40E-05
418	1.45E-05	485	3.15E-04	552	6.04E-04	619	9.94E-04	686	3.78E-04	753	5.20E-05
419	1.58E-05	486	3.24E-04	553	6.10E-04	620	9.91E-04	687	3.70E-04	754	5.05E-05
420	1.75E-05	487	3.31E-04	554	6.15E-04	621	9.89E-04	688	3.60E-04	755	4.85E-05
421	1.96E-05	488	3.36E-04	555	6.20E-04	622	9.89E-04	689	3.51E-04	756	4.65E-05
422	2.18E-05	489	3.44E-04	556	6.22E-04	623	9.90E-04	690	3.43E-04	757	4.55E-05
423	2.42E-05	490	3.50E-04	557	6.27E-04	624	9.88E-04	691	3.34E-04	758	4.41E-05
424	2.63E-05	491	3.55E-04	558	6.32E-04	625	9.82E-04	692	3.25E-04	759	4.29E-05
425	2.95E-05	492	3.61E-04	559	6.36E-04	626	9.80E-04	693	3.18E-04	760	4.20E-05
426	3.32E-05	493	3.66E-04	560	6.40E-04	627	9.75E-04	694	3.09E-04	761	4.03E-05
427	3.68E-05	494	3.73E-04	561	6.46E-04	628	9.71E-04	695	3.00E-04	762	3.87E-05
428	4.07E-05	495	3.79E-04	562	6.52E-04	629	9.66E-04	696	2.94E-04	763	3.78E-05
429	4.59E-05	496	3.84E-04	563	6.57E-04	630	9.59E-04	697	2.85E-04	764	3.64E-05
430	4.97E-05	497	3.92E-04	564	6.64E-04	631	9.51E-04	698	2.79E-04	765	3.55E-05
431	5.45E-05	498	3.96E-04	565	6.66E-04	632	9.48E-04	699	2.71E-04	766	3.47E-05
432	6.05E-05	499	4.06E-04	566	6.74E-04	633	9.41E-04	700	2.64E-04	767	3.37E-05
433	6.51E-05	500	4.12E-04	567	6.81E-04	634	9.33E-04	701	2.57E-04	768	3.21E-05
434	7.15E-05	501	4.18E-04	568	6.86E-04	635	9.27E-04	702	2.50E-04	769	3.11E-05
435	7.87E-05	502	4.24E-04	569	6.93E-04	636	9.20E-04	703	2.43E-04	770	3.02E-05
436	8.68E-05	503	4.29E-04	570	6.99E-04	637	9.08E-04	704	2.36E-04	771	2.89E-05
437	9.52E-05	504	4.37E-04	571	7.04E-04	638	9.04E-04	705	2.30E-04	772	2.81E-05
438	1.07E-04	505	4.41E-04	572	7.12E-04	639	8.90E-04	706	2.23E-04	773	2.74E-05
439	1.17E-04	506	4.46E-04	573	7.20E-04	640	8.80E-04	707	2.17E-04	774	2.66E-05
440	1.30E-04	507	4.50E-04	574	7.25E-04	641	8.68E-04	708	2.11E-04	775	2.53E-05
441	1.43E-04	508	4.56E-04	575	7.32E-04	642	8.58E-04	709	2.04E-04	776	2.49E-05
442	1.59E-04	509	4.60E-04	576	7.39E-04	643	8.50E-04	710	1.98E-04	777	2.37E-05
443	1.74E-04	510	4.62E-04	577	7.44E-04	644	8.41E-04	711	1.93E-04	778	2.37E-05
444	1.92E-04	511	4.65E-04	578	7.52E-04	645	8.32E-04	712	1.89E-04	779	2.37E-05
445	2.13E-04	512	4.69E-04	579	7.59E-04	646	8.21E-04	713	1.82E-04	780	2.38E-05
446	2.39E-04	513	4.70E-04	580	7.66E-04	647	8.11E-04	714	1.78E-04	N/A	N/A



## 4.0 LM-79 Measurement and Test Results

### 4.2 Goniophotometer Test

Model No.	COL12LM2 @3000K Black trim	Sample ID	250903016-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	25.0	Humidity (%RH)	41.1

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 <math>25 \pm 1^\circ\text{C}</math>, 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 <math>\pm 0.2</math> 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 <math>1.0^\circ</math> vertical intervals and <math>15^\circ</math> horizontal intervals.</p>

#### Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	120.0	60	0.101	11.9	0.985
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

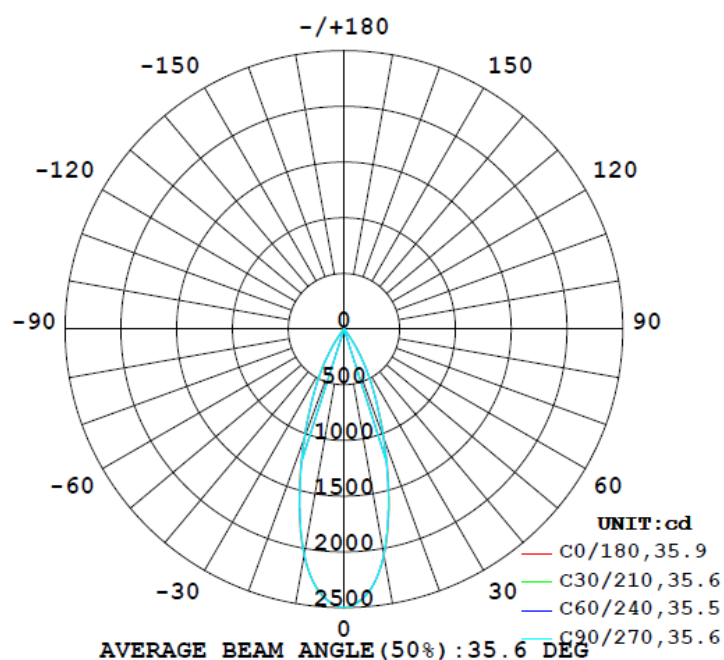
#### Test Result

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°)
1068	65.3	64.6	36.0	35.6	89.7	100.0%

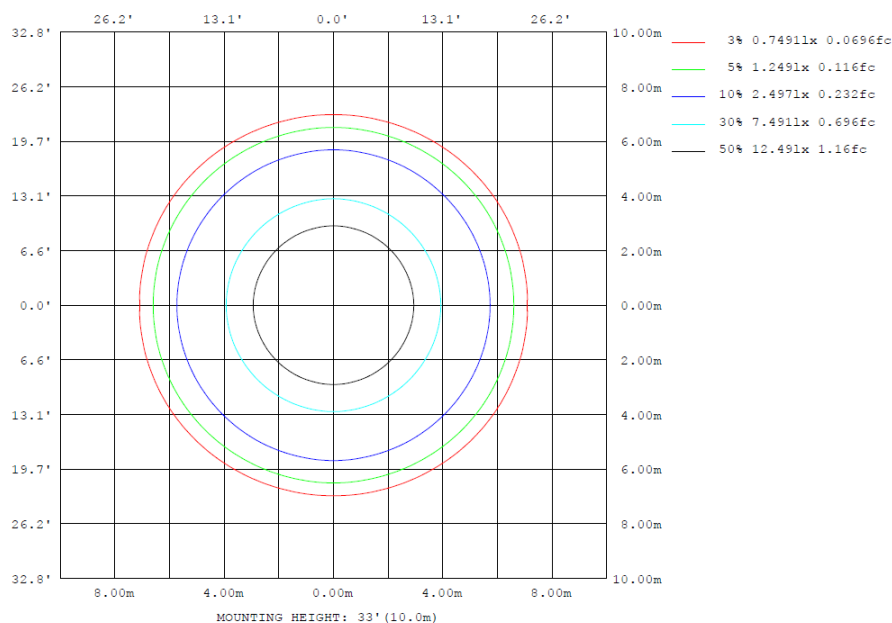
## 4.2 Goniophotometer Test

### 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	2064	2058	2054	2058	2064	2058	2054	2058	0- 10	217.5	217.5	20.4, 20.4
20	1051	1033	1035	1033	1051	1033	1035	1033	10- 20	422.3	639.8	59.9, 59.9
30	373.2	363.6	361.2	363.6	373.2	363.6	361.2	363.6	20- 30	299.3	939.1	87.9, 87.9
40	29.51	24.58	22.23	24.58	29.51	24.58	22.23	24.58	30- 40	97.04	1036	97, 97
50	11.53	11.58	11.29	11.58	11.53	11.58	11.29	11.58	40- 50	11.15	1047	98, 98
60	9.375	9.303	9.019	9.303	9.375	9.303	9.019	9.303	50- 60	9.357	1057	98.9, 98.9
70	6.015	5.985	5.673	5.985	6.015	5.985	5.673	5.985	60- 70	7.770	1064	99.6, 99.6
80	0.5667	0.5327	0.5687	0.5327	0.5667	0.5327	0.5687	0.5327	70- 80	3.762	1068	100, 100
90	0	0	0	0	0	0	0	0	80- 90	0.2323	1068	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	1068	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	1068	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	1068	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	1068	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	1068	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	1068	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	1068	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	1068	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	1068	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	217.49	0-10	217.49	20.36%
10-20	422.34	0-20	639.83	59.88%
20-30	299.32	0-30	939.15	87.90%
30-40	97.04	0-40	1036.19	96.98%
40-50	11.15	0-50	1047.34	98.02%
50-60	9.36	0-60	1056.70	98.90%
60-70	7.77	0-70	1064.47	99.63%
70-80	3.76	0-80	1068.23	99.98%
80-90	0.23	0-90	1068.46	100.00%
90-100	0.00	0-100	1068.46	100.00%
100-110	0.00	0-110	1068.46	100.00%
110-120	0.00	0-120	1068.46	100.00%
120-130	0.00	0-130	1068.46	100.00%
130-140	0.00	0-140	1068.46	100.00%
140-150	0.00	0-150	1068.46	100.00%
150-160	0.00	0-160	1068.46	100.00%
160-170	0.00	0-170	1068.46	100.00%
170-180	0.00	0-180	1068.46	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	2497	2497	2498	2498	2497	2497	2497	2497	2497	2498	2498	2497	2497	2497	2498	2498	2497	2497	2497
5	2384	2384	2385	2385	2386	2388	2390	2388	2386	2385	2385	2384	2384	2384	2385	2385	2386	2388	2390
10	2064	2063	2060	2058	2056	2053	2054	2053	2056	2058	2060	2063	2064	2063	2060	2058	2056	2053	2054
15	1560	1555	1548	1541	1537	1536	1538	1536	1537	1541	1548	1555	1560	1555	1548	1541	1537	1536	1538
20	1051	1045	1037	1033	1030	1031	1035	1031	1030	1033	1037	1045	1051	1045	1037	1033	1030	1031	1035
25	656	652	648	646	646	645	647	645	646	646	648	652	656	652	648	646	646	645	647
30	373	371	367	364	361	359	361	359	361	364	367	371	373	371	367	364	361	359	361
35	151	152	150	145	138	133	132	133	138	145	150	152	151	152	150	145	138	133	132
40	29.5	28.7	27.1	24.6	22.6	21.9	22.2	21.9	22.6	24.6	27.1	28.7	29.5	28.7	27.1	24.6	22.6	21.9	22.2
45	13.3	13.3	13.3	13.3	13.3	13.3	13.2	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.2
50	11.5	11.5	11.5	11.6	11.6	11.5	11.3	11.5	11.6	11.6	11.5	11.5	11.5	11.5	11.6	11.6	11.5	11.5	11.3
55	10.6	10.6	10.6	10.6	10.6	10.5	10.3	10.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.5	10.3
60	9.37	9.34	9.35	9.30	9.19	9.13	9.02	9.13	9.19	9.30	9.35	9.34	9.37	9.34	9.35	9.30	9.19	9.13	9.02
65	8.19	8.18	8.21	8.15	8.06	7.96	7.83	7.96	8.06	8.15	8.21	8.18	8.19	8.18	8.21	8.15	8.06	7.96	7.83
70	6.02	6.04	6.05	5.99	5.92	5.79	5.67	5.79	5.92	5.99	6.05	6.04	6.02	6.04	6.05	5.99	5.92	5.79	5.67
75	3.94	3.94	3.90	3.90	3.83	3.69	3.55	3.69	3.83	3.90	3.90	3.94	3.94	3.94	3.90	3.90	3.83	3.69	3.55
80	0.57	0.54	0.52	0.53	0.55	0.56	0.57	0.56	0.55	0.53	0.52	0.54	0.57	0.54	0.52	0.53	0.55	0.56	0.57
85	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19
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) y (DEG)	285	300	315	330	345														
0	2497	2497	2498	2498	2497														
5	2388	2386	2385	2385	2384														
10	2053	2056	2058	2060	2063														
15	1536	1537	1541	1548	1555														
20	1031	1030	1033	1037	1045														
25	645	646	646	648	652														
30	359	361	364	367	371														
35	133	138	145	150	152														
40	21.9	22.6	24.6	27.1	28.7														
45	13.3	13.3	13.3	13.3	13.3														
50	11.5	11.6	11.6	11.5	11.5														
55	10.5	10.6	10.6	10.6	10.6														
60	9.13	9.19	9.30	9.35	9.34														
65	7.96	8.06	8.15	8.21	8.18														
70	5.79	5.92	5.99	6.05	6.04														
75	3.69	3.83	3.90	3.90	3.94														
80	0.56	0.55	0.53	0.52	0.54														
85	0.19	0.19	0.19	0.20	0.20														
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>	COL12LM2 @3000K Black trim	<b>Sample ID</b>	250903016-S1
<b>Temperature (°C)</b>	25.4	<b>Humidity (%RH)</b>	41.0

<b>Test Method</b>
<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	0.101	11.9	0.985	10.73

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