

## 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		1698
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	97.6
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		17.4
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	11.28
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.983
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	3985±275	3816
			4 steps	3985±154	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		93.4
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		89
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%		-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		0.148
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		17.4
(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	2025-09-16	COL18LM3 @4000K Black trim	-	250903018-S1
2	Goniophotometer Test	2025-09-16	COL18LM3 @4000K Black trim	-	250903018-S1
3	THD and PF Test	2025-09-16	COL18LM3 @4000K Black trim	-	250903018-S1

### Remark (If any):

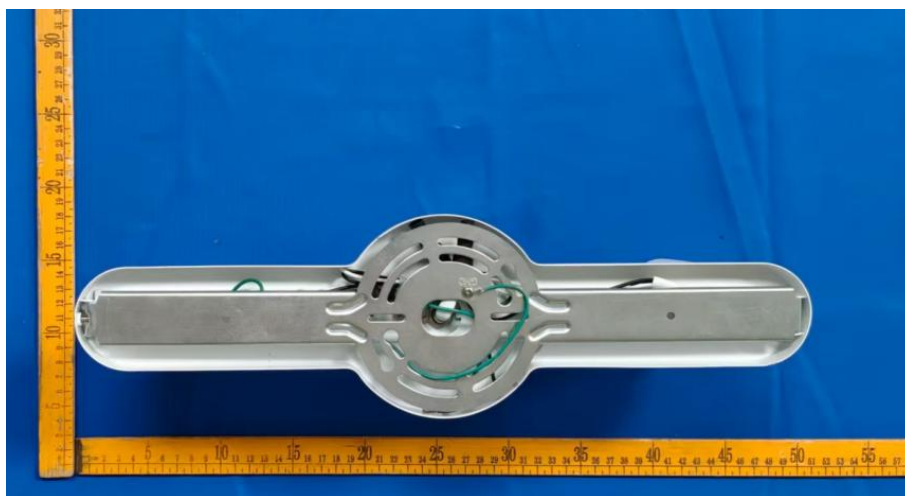
1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
3. This report must not be used by the client to claim product certification, approval, or endorsement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

### 3.0 Product Description

Luminaire Description: Model No. COL18LM3 @4000K 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>	COL18LM3 @4000K Black trim	<b>Sample ID</b>	250903018-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

<b>Test Method</b>
<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 4<math>\pi</math> 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

<b>Voltage (Vac)</b>	<b>Frequency (Hz)</b>	<b>Current (A)</b>	<b>Power (W)</b>	<b>Power Factor</b>
120.0	60	0.148	17.4	0.983

<b>CCT (K)</b>	<b>CRI</b>	<b>R9</b>	<b>Duv</b>	<b>SDCM</b>	<b>Rf</b>	<b>Rg</b>	<b>IES Rcs,h1</b>
3816	93.4	72	-0.0020	4.7	89	96	-4%



## 4.1 Integrating Sphere Test

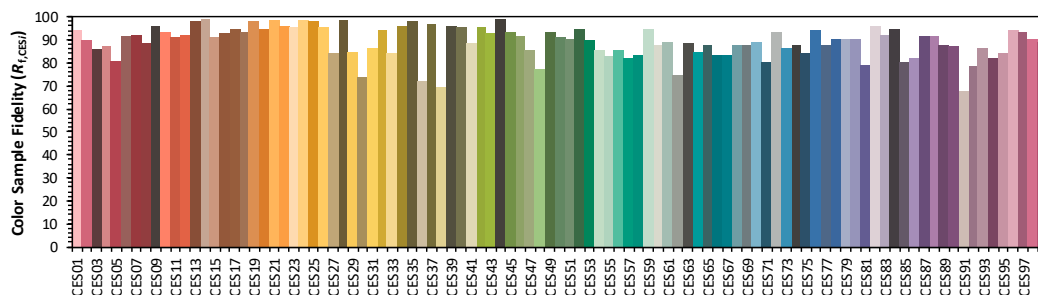
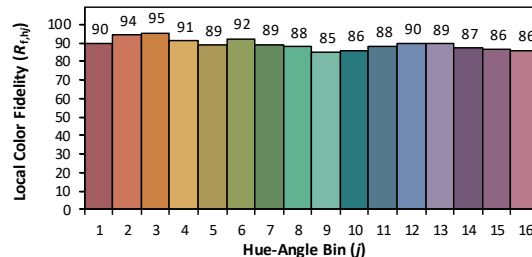
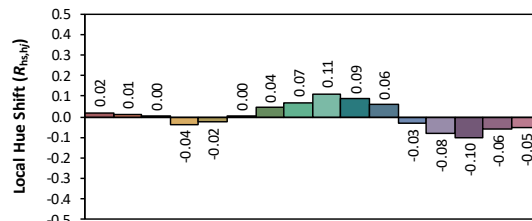
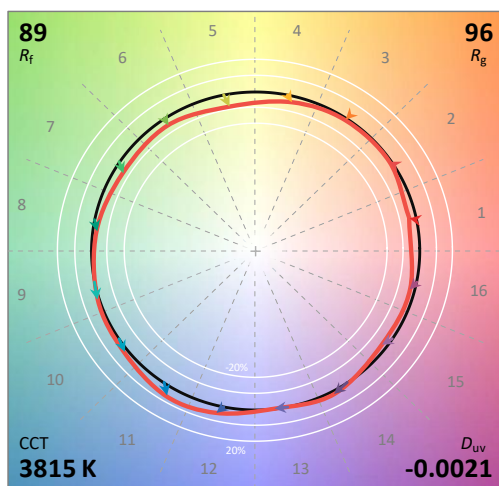
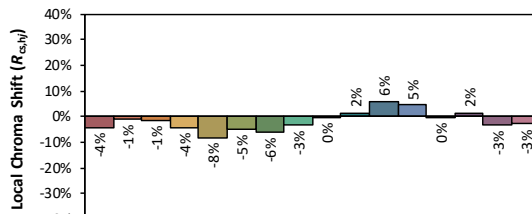
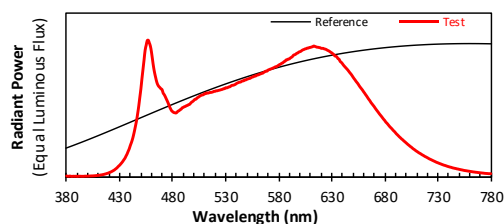
### ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/17

Model: COL18LM3 @4000K Black trim



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

$x$  0.3872  
 $y$  0.3764  
 $u'$  0.2298  
 $v'$  0.5024

CIE 13.3-1995  
(CRI)

$R_a$  93

$R_g$  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	5.50E-06	447	4.63E-04	514	6.13E-04	581	8.21E-04	648	7.53E-04	715	1.62E-04
381	3.50E-06	448	5.16E-04	515	6.16E-04	582	8.24E-04	649	7.42E-04	716	1.57E-04
382	2.90E-06	449	5.80E-04	516	6.16E-04	583	8.31E-04	650	7.30E-04	717	1.53E-04
383	4.60E-06	450	6.41E-04	517	6.18E-04	584	8.33E-04	651	7.19E-04	718	1.48E-04
384	3.20E-06	451	7.16E-04	518	6.20E-04	585	8.42E-04	652	7.09E-04	719	1.44E-04
385	1.90E-06	452	7.85E-04	519	6.25E-04	586	8.45E-04	653	6.97E-04	720	1.40E-04
386	3.30E-06	453	8.54E-04	520	6.25E-04	587	8.55E-04	654	6.88E-04	721	1.36E-04
387	3.00E-06	454	9.25E-04	521	6.29E-04	588	8.55E-04	655	6.77E-04	722	1.31E-04
388	3.00E-06	455	9.61E-04	522	6.28E-04	589	8.61E-04	656	6.65E-04	723	1.27E-04
389	3.50E-06	456	9.96E-04	523	6.31E-04	590	8.62E-04	657	6.54E-04	724	1.24E-04
390	1.80E-06	457	9.99E-04	524	6.33E-04	591	8.69E-04	658	6.44E-04	725	1.20E-04
391	2.90E-06	458	9.78E-04	525	6.35E-04	592	8.74E-04	659	6.34E-04	726	1.16E-04
392	3.40E-06	459	9.55E-04	526	6.37E-04	593	8.79E-04	660	6.23E-04	727	1.12E-04
393	3.30E-06	460	9.12E-04	527	6.40E-04	594	8.89E-04	661	6.12E-04	728	1.09E-04
394	2.70E-06	461	8.56E-04	528	6.44E-04	595	8.92E-04	662	6.00E-04	729	1.05E-04
395	2.80E-06	462	8.01E-04	529	6.44E-04	596	8.96E-04	663	5.90E-04	730	1.02E-04
396	2.80E-06	463	7.59E-04	530	6.51E-04	597	9.03E-04	664	5.78E-04	731	9.88E-05
397	3.80E-06	464	7.24E-04	531	6.50E-04	598	9.05E-04	665	5.66E-04	732	9.58E-05
398	3.90E-06	465	6.92E-04	532	6.53E-04	599	9.12E-04	666	5.56E-04	733	9.29E-05
399	4.00E-06	466	6.72E-04	533	6.57E-04	600	9.15E-04	667	5.43E-04	734	8.96E-05
400	4.00E-06	467	6.60E-04	534	6.58E-04	601	9.18E-04	668	5.33E-04	735	8.68E-05
401	4.60E-06	468	6.52E-04	535	6.64E-04	602	9.24E-04	669	5.23E-04	736	8.40E-05
402	4.90E-06	469	6.43E-04	536	6.68E-04	603	9.29E-04	670	5.13E-04	737	8.19E-05
403	5.50E-06	470	6.37E-04	537	6.69E-04	604	9.31E-04	671	5.02E-04	738	7.92E-05
404	5.60E-06	471	6.12E-04	538	6.72E-04	605	9.35E-04	672	4.91E-04	739	7.63E-05
405	6.10E-06	472	6.01E-04	539	6.75E-04	606	9.37E-04	673	4.81E-04	740	7.40E-05
406	6.70E-06	473	5.86E-04	540	6.81E-04	607	9.41E-04	674	4.70E-04	741	7.16E-05
407	7.30E-06	474	5.69E-04	541	6.86E-04	608	9.41E-04	675	4.60E-04	742	6.95E-05
408	8.20E-06	475	5.52E-04	542	6.88E-04	609	9.45E-04	676	4.50E-04	743	6.77E-05
409	9.00E-06	476	5.34E-04	543	6.92E-04	610	9.46E-04	677	4.41E-04	744	6.47E-05
410	9.50E-06	477	5.13E-04	544	6.92E-04	611	9.49E-04	678	4.30E-04	745	6.31E-05
411	1.06E-05	478	4.97E-04	545	6.97E-04	612	9.51E-04	679	4.20E-04	746	6.11E-05
412	1.24E-05	479	4.83E-04	546	7.01E-04	613	9.56E-04	680	4.11E-04	747	5.98E-05
413	1.33E-05	480	4.76E-04	547	7.01E-04	614	9.54E-04	681	4.00E-04	748	5.74E-05
414	1.52E-05	481	4.70E-04	548	7.09E-04	615	9.51E-04	682	3.92E-04	749	5.62E-05
415	1.66E-05	482	4.68E-04	549	7.08E-04	616	9.48E-04	683	3.83E-04	750	5.42E-05
416	1.90E-05	483	4.66E-04	550	7.13E-04	617	9.47E-04	684	3.73E-04	751	5.25E-05
417	2.09E-05	484	4.71E-04	551	7.15E-04	618	9.45E-04	685	3.64E-04	752	5.08E-05
418	2.36E-05	485	4.79E-04	552	7.18E-04	619	9.44E-04	686	3.57E-04	753	4.93E-05
419	2.59E-05	486	4.82E-04	553	7.20E-04	620	9.40E-04	687	3.48E-04	754	4.75E-05
420	2.91E-05	487	4.90E-04	554	7.25E-04	621	9.39E-04	688	3.39E-04	755	4.57E-05
421	3.26E-05	488	4.94E-04	555	7.29E-04	622	9.39E-04	689	3.32E-04	756	4.45E-05
422	3.58E-05	489	5.04E-04	556	7.31E-04	623	9.35E-04	690	3.23E-04	757	4.34E-05
423	3.99E-05	490	5.07E-04	557	7.37E-04	624	9.33E-04	691	3.14E-04	758	4.19E-05
424	4.44E-05	491	5.12E-04	558	7.36E-04	625	9.30E-04	692	3.06E-04	759	4.07E-05
425	4.91E-05	492	5.14E-04	559	7.41E-04	626	9.25E-04	693	2.98E-04	760	3.95E-05
426	5.54E-05	493	5.20E-04	560	7.44E-04	627	9.22E-04	694	2.91E-04	761	3.79E-05
427	6.15E-05	494	5.22E-04	561	7.46E-04	628	9.17E-04	695	2.84E-04	762	3.71E-05
428	6.90E-05	495	5.27E-04	562	7.50E-04	629	9.11E-04	696	2.76E-04	763	3.56E-05
429	7.73E-05	496	5.29E-04	563	7.52E-04	630	9.06E-04	697	2.70E-04	764	3.46E-05
430	8.42E-05	497	5.39E-04	564	7.56E-04	631	9.00E-04	698	2.62E-04	765	3.35E-05
431	9.32E-05	498	5.46E-04	565	7.58E-04	632	8.94E-04	699	2.56E-04	766	3.23E-05
432	1.02E-04	499	5.51E-04	566	7.64E-04	633	8.83E-04	700	2.49E-04	767	3.17E-05
433	1.13E-04	500	5.58E-04	567	7.68E-04	634	8.82E-04	701	2.42E-04	768	3.05E-05
434	1.24E-04	501	5.66E-04	568	7.73E-04	635	8.75E-04	702	2.35E-04	769	2.96E-05
435	1.35E-04	502	5.67E-04	569	7.72E-04	636	8.64E-04	703	2.29E-04	770	2.84E-05
436	1.51E-04	503	5.76E-04	570	7.80E-04	637	8.59E-04	704	2.22E-04	771	2.77E-05
437	1.66E-04	504	5.81E-04	571	7.83E-04	638	8.43E-04	705	2.17E-04	772	2.68E-05
438	1.86E-04	505	5.86E-04	572	7.87E-04	639	8.37E-04	706	2.10E-04	773	2.61E-05
439	2.03E-04	506	5.92E-04	573	7.89E-04	640	8.28E-04	707	2.03E-04	774	2.48E-05
440	2.27E-04	507	5.95E-04	574	7.93E-04	641	8.17E-04	708	1.98E-04	775	2.41E-05
441	2.48E-04	508	5.98E-04	575	7.96E-04	642	8.08E-04	709	1.92E-04	776	2.35E-05
442	2.72E-04	509	6.00E-04	576	8.00E-04	643	8.00E-04	710	1.87E-04	777	2.31E-05
443	3.02E-04	510	6.08E-04	577	8.04E-04	644	7.91E-04	711	1.82E-04	778	2.21E-05
444	3.36E-04	511	6.07E-04	578	8.06E-04	645	7.82E-04	712	1.76E-04	779	2.21E-05
445	3.74E-04	512	6.13E-04	579	8.11E-04	646	7.72E-04	713	1.72E-04	780	2.22E-05
446	4.13E-04	513	6.12E-04	580	8.16E-04	647	7.62E-04	714	1.67E-04	N/A	N/A



## 4.0 LM-79 Measurement and Test Results

### 4.2 Goniophotometer Test

<b>Model No.</b>	COL18LM3 @4000K Black trim	<b>Sample ID</b>	250903018-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

<b>Test Method</b>
<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
<b>WORST CASE</b>	120.0	60	0.148	17.4	0.983
<b>NON-WORST CASE</b>	N/A	N/A	N/A	N/A	N/A

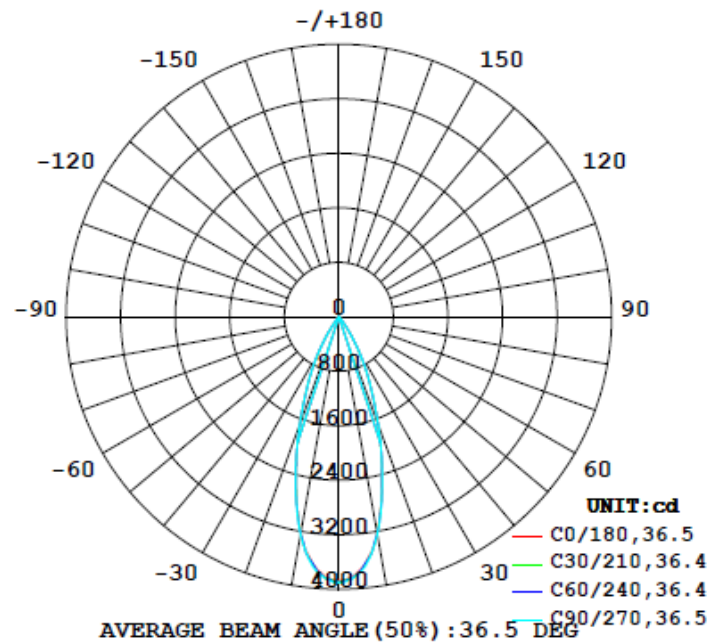
#### Test Result

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°)
1698	65.2	65.0	36.3	36.5	97.6	100.0%

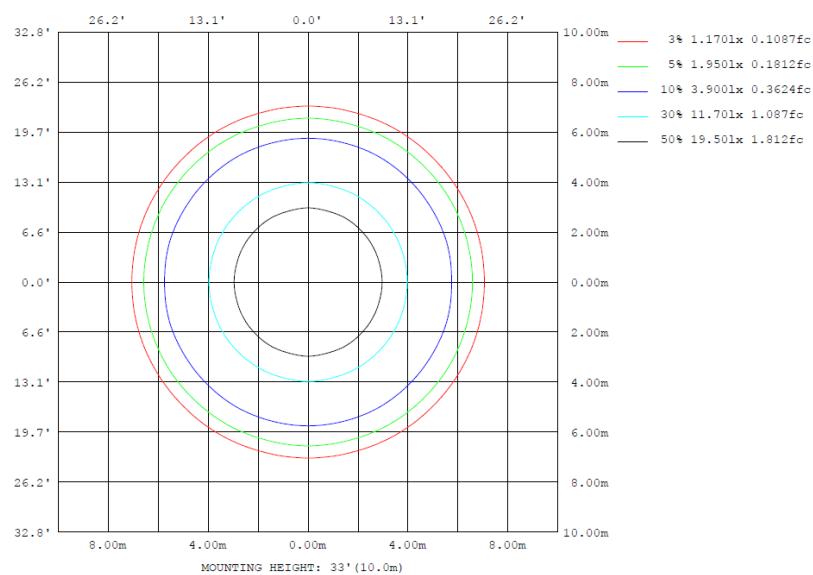
## 4.2 Goniophotometer Test

### 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	3243	3232	3245	3232	3243	3232	3245	3232	0- 10	340.6	340.6	20.1,20.1
20	1680	1676	1697	1676	1680	1676	1697	1676	10- 20	670.9	1011	59.6,59.6
30	584.7	587.9	590.1	587.9	584.7	587.9	590.1	587.9	20- 30	488.6	1500	88.3,88.3
40	37.95	38.65	37.13	38.65	37.95	38.65	37.13	38.65	30- 40	152.1	1652	97.3,97.3
50	17.15	16.95	17.21	16.95	17.15	16.95	17.21	16.95	40- 50	17.26	1669	98.3,98.3
60	12.53	12.32	12.56	12.32	12.53	12.32	12.56	12.32	50- 60	13.13	1683	99.1,99.1
70	7.739	7.435	7.736	7.435	7.739	7.435	7.736	7.435	60- 70	10.30	1693	99.7,99.7
80	0.9315	0.9977	1.019	0.9977	0.9315	0.9977	1.019	0.9977	70- 80	4.626	1697	100,100
90	0.1224	0	0	0	0.1224	0	0	0	80- 90	0.7223	1698	100,100
100	0	0	0	0	0	0	0	0	90-100	0.0006	1698	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1698	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1698	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1698	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1698	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1698	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1698	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1698	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1698	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	340.57	0-10	340.57	20.06%
10-20	670.89	0-20	1011.46	59.56%
20-30	488.60	0-30	1500.06	88.33%
30-40	152.08	0-40	1652.14	97.29%
40-50	17.26	0-50	1669.40	98.31%
50-60	13.13	0-60	1682.53	99.08%
60-70	10.30	0-70	1692.83	99.68%
70-80	4.63	0-80	1697.46	99.96%
80-90	0.72	0-90	1698.18	100.00%
90-100	0.00	0-100	1698.18	100.00%
100-110	0.00	0-110	1698.18	100.00%
110-120	0.00	0-120	1698.18	100.00%
120-130	0.00	0-130	1698.18	100.00%
130-140	0.00	0-140	1698.18	100.00%
140-150	0.00	0-150	1698.18	100.00%
150-160	0.00	0-160	1698.18	100.00%
160-170	0.00	0-170	1698.18	100.00%
170-180	0.00	0-180	1698.18	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	3877	3878	3892	3881	3892	3864	3903	3864	3892	3881	3892	3878	3877	3878	3892	3881	3892	3864	3903
5	3716	3734	3745	3737	3737	3729	3753	3729	3737	3737	3745	3734	3716	3734	3745	3737	3737	3729	3753
10	3243	3227	3239	3232	3236	3212	3245	3212	3236	3232	3239	3227	3243	3227	3239	3232	3236	3212	3245
15	2452	2443	2450	2445	2454	2430	2458	2430	2454	2445	2450	2443	2452	2443	2450	2445	2454	2430	2458
20	1680	1677	1681	1676	1680	1664	1697	1664	1680	1676	1681	1677	1680	1677	1681	1676	1680	1664	1697
25	1063	1072	1065	1061	1068	1058	1076	1058	1068	1061	1065	1072	1063	1072	1065	1061	1068	1058	1076
30	585	600	589	588	595	591	590	591	595	588	589	600	585	600	589	588	595	591	590
35	226	226	224	222	224	219	223	219	224	222	224	226	226	226	224	222	224	219	223
40	37.9	39.4	38.9	38.6	38.0	37.7	37.1	37.7	38.0	38.6	38.9	39.4	37.9	39.4	38.9	38.6	38.0	37.7	37.1
45	21.0	21.1	20.8	20.6	20.8	20.9	21.1	20.9	20.8	20.6	20.8	21.1	21.0	21.1	20.8	20.6	20.8	20.9	21.1
50	17.1	17.2	16.8	17.0	17.1	17.1	17.2	17.1	17.0	16.8	17.2	17.1	17.2	17.1	16.8	17.0	17.1	17.1	17.2
55	14.7	14.7	14.3	14.6	14.7	14.8	15.0	14.8	14.7	14.6	14.3	14.7	14.7	14.7	14.3	14.6	14.7	14.8	15.0
60	12.5	12.6	12.5	12.3	12.4	12.4	12.6	12.4	12.4	12.3	12.5	12.6	12.5	12.6	12.5	12.3	12.4	12.4	12.6
65	11.0	11.1	10.8	10.7	10.6	10.5	10.7	10.5	10.6	10.7	10.8	11.1	11.0	11.1	10.8	10.7	10.6	10.5	10.7
70	7.74	7.65	7.54	7.43	7.41	7.65	7.74	7.65	7.41	7.43	7.54	7.65	7.74	7.65	7.54	7.43	7.41	7.65	7.74
75	4.53	4.51	4.38	4.37	4.45	4.70	4.75	4.70	4.45	4.37	4.38	4.51	4.53	4.51	4.38	4.37	4.45	4.70	4.75
80	0.93	1.02	0.92	1.00	0.92	0.99	1.02	0.99	0.92	1.00	0.92	1.02	0.93	1.02	0.92	1.00	0.92	0.99	1.02
85	0.73	0.77	0.63	0.66	0.69	0.64	0.64	0.69	0.66	0.63	0.77	0.73	0.77	0.77	0.63	0.66	0.69	0.64	0.64
90	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	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	3864	3892	3881	3892	3878														
5	3729	3737	3737	3745	3734														
10	3212	3236	3232	3239	3227														
15	2430	2454	2445	2450	2443														
20	1664	1680	1676	1681	1677														
25	1058	1068	1061	1065	1072														
30	591	595	588	589	600														
35	219	224	222	224	226														
40	37.7	38.0	38.6	38.9	39.4														
45	20.9	20.8	20.6	20.8	21.1														
50	17.1	17.1	17.0	16.8	17.2														
55	14.8	14.7	14.6	14.3	14.7														
60	12.4	12.4	12.3	12.5	12.6														
65	10.5	10.6	10.7	10.8	11.1														
70	7.65	7.41	7.43	7.54	7.65														
75	4.70	4.45	4.37	4.38	4.51														
80	0.99	0.92	1.00	0.92	1.02														
85	0.64	0.69	0.66	0.63	0.77														
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>	COL18LM3 @4000K Black trim	<b>Sample ID</b>	250903018-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	0.148	17.4	0.983	11.28

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