

## 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

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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	94.4
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		18.0
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	10.99
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.984
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	5029±283	4935
			4 steps	5029±220	
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		70
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%		-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		0.152
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		18.0
(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 @5000K Black trim	-	250903018-S1
2	Goniophotometer Test	2025-09-16	COL18LM3 @5000K Black trim	-	250903018-S1
3	THD and PF Test	2025-09-16	COL18LM3 @5000K Black trim	-	250903018-S1

### Remark (If any):

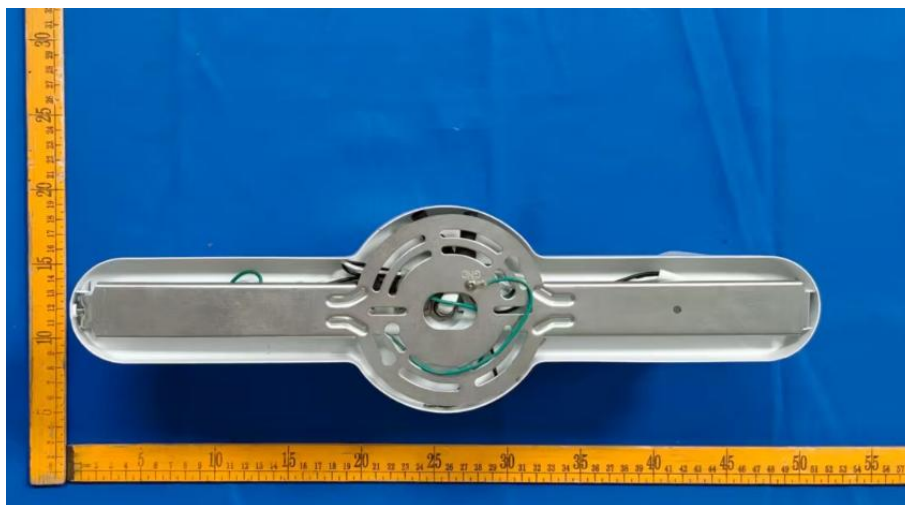
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### 3.0 Product Description

Luminaire Description: Model No. COL18LM3 @5000K 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 @5000K 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

#### 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.

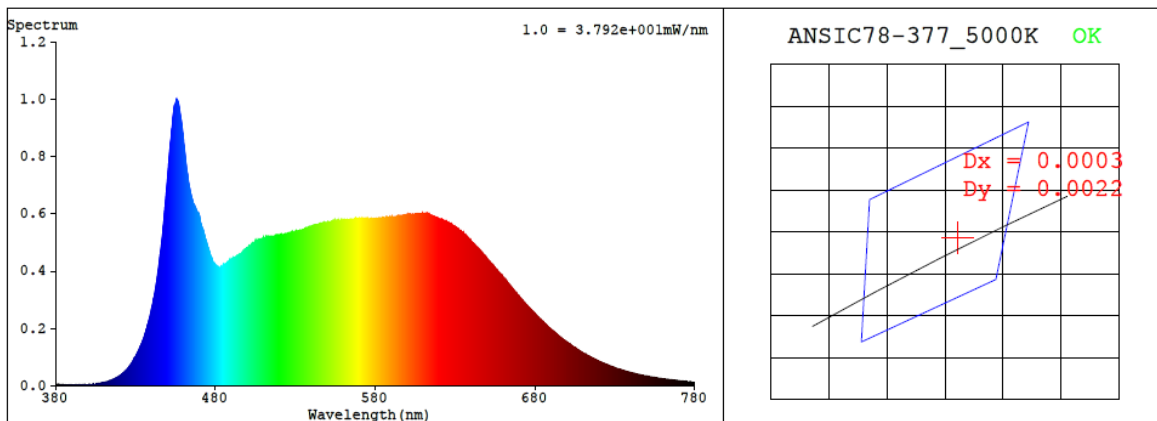
The sample was measured using  $4\pi$  geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380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

#### Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.152	18.0	0.984

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4935	93.1	70	0.0010	1.9	90	97	-5%

## 4.1 Integrating Sphere Test



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3472$   $y = 0.3553$  /  $u' = 0.2114$   $v' = 0.4868$  ( $duv=9.96e-04$ )

CCT= 4935K Prcp WL: Ld=572.6nm Purity=10.8%

Peak WL: Lp=456nm FWHM: =28.3nm Ratio:R=17.6% G=76.4% B=5.9%

Render Index: Ra = 93.1 AvgR = 90.8 TM30:Rf=91 Rg=98

EEL: 0.15908 A+

R1 =95 R2 =99 R3 =97 R4 =89 R5 =92 R6 =95 R7 =91

R8 =86 R9 =70 R10=98 R11=91 R12=69 R13=97 R14=99 R15=92

## 4.1 Integrating Sphere Test

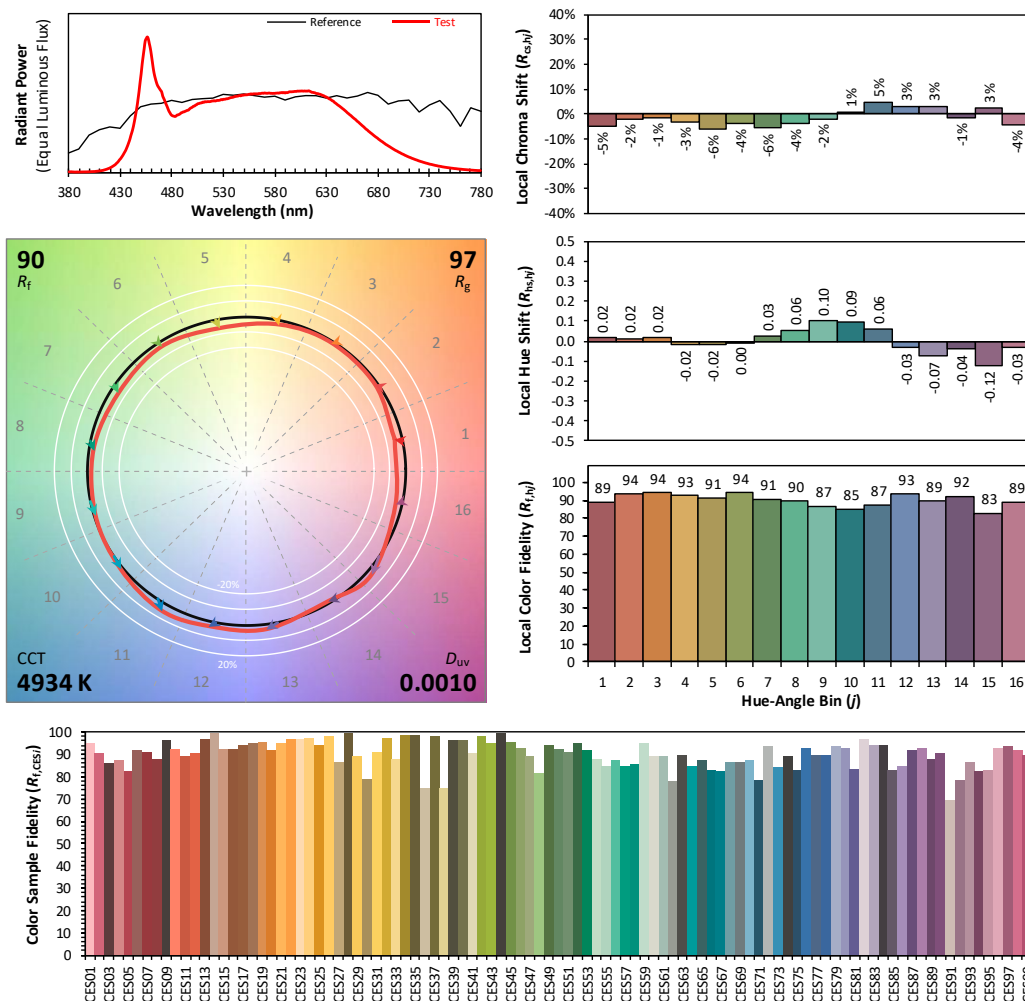
### ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/17

Model: COL18LM3 @5000K Black trim



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

$x$  0.3472  
 $y$  0.3552  
 $u'$  0.2115  
 $v'$  0.4867

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	4.60E-06	447	5.40E-04	514	5.20E-04	581	5.84E-04	648	4.58E-04	715	9.96E-05
381	4.20E-06	448	5.97E-04	515	5.22E-04	582	5.84E-04	649	4.51E-04	716	9.67E-05
382	4.70E-06	449	6.64E-04	516	5.21E-04	583	5.85E-04	650	4.44E-04	717	9.37E-05
383	3.90E-06	450	7.25E-04	517	5.22E-04	584	5.84E-04	651	4.37E-04	718	9.14E-05
384	3.50E-06	451	7.97E-04	518	5.23E-04	585	5.87E-04	652	4.31E-04	719	8.85E-05
385	2.80E-06	452	8.56E-04	519	5.26E-04	586	5.86E-04	653	4.24E-04	720	8.53E-05
386	2.70E-06	453	9.13E-04	520	5.26E-04	587	5.89E-04	654	4.19E-04	721	8.30E-05
387	2.90E-06	454	9.69E-04	521	5.28E-04	588	5.86E-04	655	4.12E-04	722	8.04E-05
388	3.40E-06	455	9.85E-04	522	5.26E-04	589	5.89E-04	656	4.05E-04	723	7.84E-05
389	2.80E-06	456	9.98E-04	523	5.28E-04	590	5.85E-04	657	3.99E-04	724	7.58E-05
390	3.60E-06	457	9.83E-04	524	5.30E-04	591	5.88E-04	658	3.93E-04	725	7.34E-05
391	3.40E-06	458	9.48E-04	525	5.30E-04	592	5.87E-04	659	3.87E-04	726	7.13E-05
392	3.30E-06	459	9.12E-04	526	5.31E-04	593	5.89E-04	660	3.78E-04	727	6.87E-05
393	3.60E-06	460	8.64E-04	527	5.33E-04	594	5.93E-04	661	3.73E-04	728	6.71E-05
394	3.70E-06	461	8.10E-04	528	5.37E-04	595	5.94E-04	662	3.66E-04	729	6.49E-05
395	3.70E-06	462	7.57E-04	529	5.34E-04	596	5.94E-04	663	3.59E-04	730	6.26E-05
396	3.90E-06	463	7.17E-04	530	5.38E-04	597	5.94E-04	664	3.52E-04	731	6.05E-05
397	4.00E-06	464	6.87E-04	531	5.39E-04	598	5.95E-04	665	3.45E-04	732	5.92E-05
398	4.30E-06	465	6.60E-04	532	5.40E-04	599	5.96E-04	666	3.39E-04	733	5.76E-05
399	4.80E-06	466	6.40E-04	533	5.42E-04	600	5.97E-04	667	3.32E-04	734	5.55E-05
400	4.90E-06	467	6.27E-04	534	5.43E-04	601	5.97E-04	668	3.25E-04	735	5.38E-05
401	5.40E-06	468	6.16E-04	535	5.45E-04	602	5.99E-04	669	3.18E-04	736	5.18E-05
402	5.80E-06	469	6.04E-04	536	5.48E-04	603	5.98E-04	670	3.13E-04	737	5.04E-05
403	6.10E-06	470	5.93E-04	537	5.51E-04	604	5.99E-04	671	3.05E-04	738	4.89E-05
404	6.50E-06	471	5.63E-04	538	5.52E-04	605	5.99E-04	672	2.99E-04	739	4.66E-05
405	6.60E-06	472	5.45E-04	539	5.53E-04	606	6.00E-04	673	2.93E-04	740	4.58E-05
406	7.90E-06	473	5.28E-04	540	5.55E-04	607	5.99E-04	674	2.87E-04	741	4.43E-05
407	8.50E-06	474	5.07E-04	541	5.59E-04	608	5.99E-04	675	2.81E-04	742	4.32E-05
408	9.40E-06	475	4.91E-04	542	5.59E-04	609	6.00E-04	676	2.74E-04	743	4.12E-05
409	1.02E-05	476	4.71E-04	543	5.62E-04	610	5.99E-04	677	2.68E-04	744	4.01E-05
410	1.13E-05	477	4.52E-04	544	5.62E-04	611	5.99E-04	678	2.62E-04	745	3.87E-05
411	1.25E-05	478	4.39E-04	545	5.65E-04	612	5.99E-04	679	2.57E-04	746	3.77E-05
412	1.42E-05	479	4.27E-04	546	5.66E-04	613	6.01E-04	680	2.52E-04	747	3.66E-05
413	1.53E-05	480	4.20E-04	547	5.64E-04	614	5.98E-04	681	2.45E-04	748	3.54E-05
414	1.78E-05	481	4.16E-04	548	5.69E-04	615	5.95E-04	682	2.40E-04	749	3.45E-05
415	1.98E-05	482	4.14E-04	549	5.68E-04	616	5.90E-04	683	2.34E-04	750	3.34E-05
416	2.23E-05	483	4.12E-04	550	5.70E-04	617	5.90E-04	684	2.29E-04	751	3.23E-05
417	2.48E-05	484	4.16E-04	551	5.71E-04	618	5.88E-04	685	2.24E-04	752	3.12E-05
418	2.80E-05	485	4.23E-04	552	5.71E-04	619	5.87E-04	686	2.18E-04	753	3.04E-05
419	3.05E-05	486	4.24E-04	553	5.72E-04	620	5.82E-04	687	2.13E-04	754	2.94E-05
420	3.46E-05	487	4.27E-04	554	5.74E-04	621	5.81E-04	688	2.06E-04	755	2.83E-05
421	3.83E-05	488	4.32E-04	555	5.75E-04	622	5.80E-04	689	2.02E-04	756	2.78E-05
422	4.30E-05	489	4.39E-04	556	5.76E-04	623	5.77E-04	690	1.97E-04	757	2.69E-05
423	4.79E-05	490	4.41E-04	557	5.78E-04	624	5.76E-04	691	1.93E-04	758	2.57E-05
424	5.29E-05	491	4.46E-04	558	5.76E-04	625	5.72E-04	692	1.88E-04	759	2.50E-05
425	5.85E-05	492	4.46E-04	559	5.78E-04	626	5.69E-04	693	1.83E-04	760	2.42E-05
426	6.66E-05	493	4.51E-04	560	5.79E-04	627	5.66E-04	694	1.78E-04	761	2.38E-05
427	7.34E-05	494	4.54E-04	561	5.79E-04	628	5.63E-04	695	1.74E-04	762	2.28E-05
428	8.22E-05	495	4.58E-04	562	5.79E-04	629	5.58E-04	696	1.69E-04	763	2.20E-05
429	9.29E-05	496	4.59E-04	563	5.78E-04	630	5.56E-04	697	1.64E-04	764	2.13E-05
430	1.01E-04	497	4.67E-04	564	5.80E-04	631	5.51E-04	698	1.60E-04	765	2.07E-05
431	1.12E-04	498	4.73E-04	565	5.81E-04	632	5.47E-04	699	1.57E-04	766	2.01E-05
432	1.23E-04	499	4.77E-04	566	5.81E-04	633	5.42E-04	700	1.52E-04	767	1.94E-05
433	1.36E-04	500	4.82E-04	567	5.83E-04	634	5.39E-04	701	1.48E-04	768	1.88E-05
434	1.50E-04	501	4.88E-04	568	5.84E-04	635	5.33E-04	702	1.45E-04	769	1.83E-05
435	1.63E-04	502	4.89E-04	569	5.83E-04	636	5.28E-04	703	1.40E-04	770	1.75E-05
436	1.81E-04	503	4.96E-04	570	5.85E-04	637	5.24E-04	704	1.36E-04	771	1.71E-05
437	2.00E-04	504	4.99E-04	571	5.84E-04	638	5.16E-04	705	1.33E-04	772	1.66E-05
438	2.21E-04	505	5.06E-04	572	5.83E-04	639	5.11E-04	706	1.29E-04	773	1.60E-05
439	2.42E-04	506	5.07E-04	573	5.83E-04	640	5.05E-04	707	1.25E-04	774	1.54E-05
440	2.71E-04	507	5.09E-04	574	5.84E-04	641	4.99E-04	708	1.22E-04	775	1.49E-05
441	2.95E-04	508	5.12E-04	575	5.84E-04	642	4.93E-04	709	1.18E-04	776	1.45E-05
442	3.23E-04	509	5.13E-04	576	5.82E-04	643	4.88E-04	710	1.15E-04	777	1.40E-05
443	3.57E-04	510	5.18E-04	577	5.83E-04	644	4.82E-04	711	1.11E-04	778	1.37E-05
444	3.97E-04	511	5.16E-04	578	5.82E-04	645	4.76E-04	712	1.09E-04	779	1.36E-05
445	4.40E-04	512	5.21E-04	579	5.83E-04	646	4.70E-04	713	1.05E-04	780	1.37E-05
446	4.84E-04	513	5.20E-04	580	5.82E-04	647	4.64E-04	714	1.03E-04	N/A	N/A



## 4.0 LM-79 Measurement and Test Results

### 4.2 Goniophotometer Test

<b>Model No.</b>	COL18LM3 @5000K 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	0.152	18.0	0.984
<b>NON-WORST CASE</b>	N/A	N/A	N/A	N/A	N/A

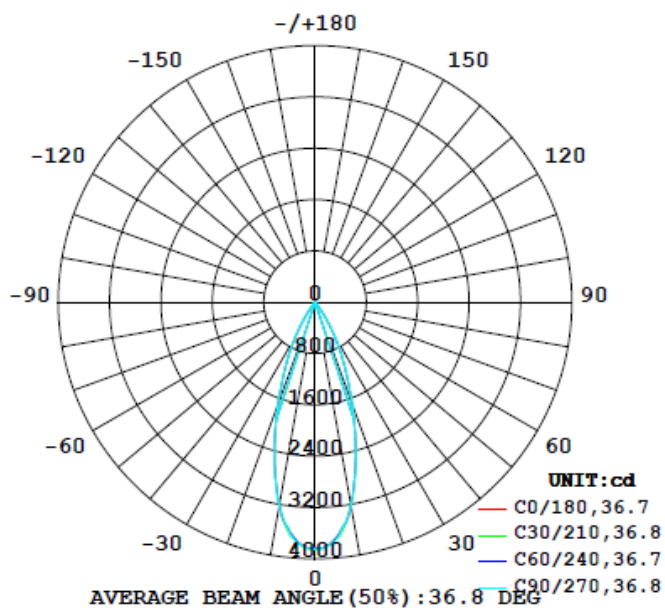
#### Test Result

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	65.3	65.2	36.8	36.7	94.4	100.0%

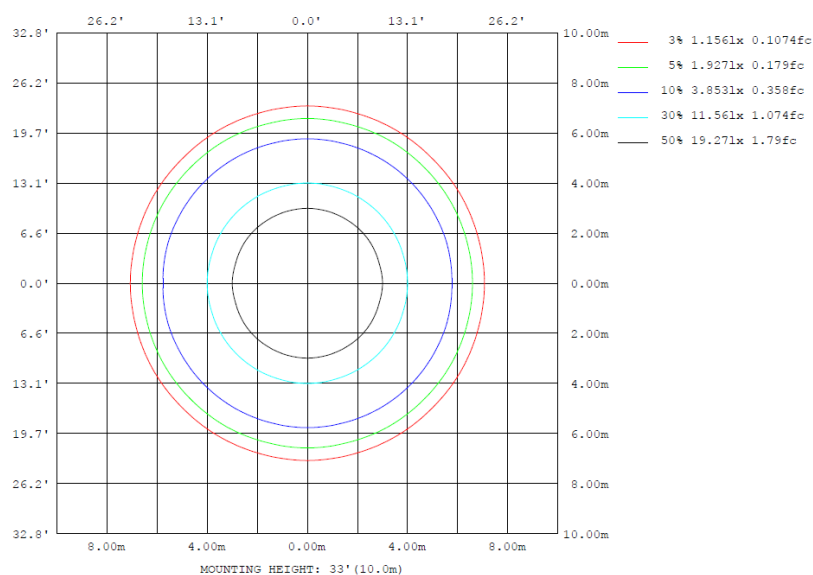
## 4.2 Goniophotometer Test

### 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	3220	3224	3226	3224	3220	3224	3226	3224	0- 10	338.1	338.1	19.9,19.9
20	1696	1686	1699	1686	1696	1686	1699	1686	10- 20	670.6	1009	59.4,59.4
30	590.7	594.0	589.7	594.0	590.7	594.0	589.7	594.0	20- 30	491.3	1500	88.3,88.3
40	38.16	38.55	37.71	38.55	38.16	38.55	37.71	38.55	30- 40	152.5	1653	97.3,97.3
50	17.09	16.98	17.29	16.98	17.09	16.98	17.29	16.98	40- 50	17.27	1670	98.3,98.3
60	12.68	12.37	12.43	12.37	12.68	12.37	12.43	12.37	50- 60	13.11	1683	99.1,99.1
70	7.818	7.326	7.570	7.326	7.818	7.326	7.570	7.326	60- 70	10.25	1693	99.7,99.7
80	0.9259	1.008	0.9919	1.008	0.9259	1.008	0.9919	1.008	70- 80	4.610	1698	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.6193	1698	100,100
100	0	0	0	0	0	0	0	0	90-100	0	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	338.13	0-10	338.13	19.91%
10-20	670.65	0-20	1008.78	59.39%
20-30	491.34	0-30	1500.12	88.32%
30-40	152.47	0-40	1652.59	97.30%
40-50	17.28	0-50	1669.87	98.32%
50-60	13.11	0-60	1682.98	99.09%
60-70	10.25	0-70	1693.23	99.69%
70-80	4.61	0-80	1697.84	99.96%
80-90	0.62	0-90	1698.46	100.00%
90-100	0.00	0-100	1698.46	100.00%
100-110	0.00	0-110	1698.46	100.00%
110-120	0.00	0-120	1698.46	100.00%
120-130	0.00	0-130	1698.46	100.00%
130-140	0.00	0-140	1698.46	100.00%
140-150	0.00	0-150	1698.46	100.00%
150-160	0.00	0-160	1698.46	100.00%
160-170	0.00	0-170	1698.46	100.00%
170-180	0.00	0-180	1698.46	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
0	3852	3809	3852	3869	3823	3838	3846	3838	3823	3869	3852	3809	3852	3809	3852	3869	3823	3838	3846
5	3701	3668	3699	3721	3694	3705	3721	3705	3694	3721	3699	3668	3701	3668	3699	3721	3694	3705	3721
10	3220	3181	3206	3224	3219	3206	3226	3206	3219	3224	3206	3181	3220	3181	3206	3224	3219	3206	3226
15	2463	2432	2454	2460	2455	2433	2463	2433	2455	2460	2454	2432	2463	2432	2454	2460	2455	2433	2463
20	1696	1674	1678	1686	1675	1677	1699	1677	1675	1686	1678	1674	1696	1674	1678	1686	1675	1677	1699
25	1072	1064	1073	1077	1077	1080	1079	1080	1077	1077	1073	1064	1072	1064	1073	1077	1077	1080	1079
30	591	602	594	594	591	585	590	585	591	594	602	591	602	594	594	591	585	590	591
35	227	223	224	221	225	224	229	224	225	221	224	223	227	223	224	221	225	224	229
40	38.2	38.8	39.2	38.6	38.0	37.8	37.7	37.8	38.0	38.6	39.2	38.8	38.2	38.8	39.2	38.6	38.0	37.8	37.7
45	21.1	20.9	20.9	20.7	20.7	20.9	21.1	20.9	20.7	20.7	20.9	20.9	21.1	20.9	20.9	20.7	20.7	20.9	21.1
50	17.1	17.1	16.9	17.0	17.0	17.0	17.3	17.0	17.0	17.0	16.9	17.1	17.1	17.1	16.9	17.0	17.0	17.0	17.3
55	14.5	14.6	14.7	14.6	14.6	14.9	14.9	14.9	14.6	14.6	14.7	14.6	14.5	14.6	14.7	14.6	14.6	14.9	14.9
60	12.7	12.6	12.4	12.4	12.3	12.5	12.4	12.5	12.3	12.4	12.4	12.6	12.7	12.6	12.4	12.4	12.3	12.5	12.4
65	11.0	11.1	10.8	10.8	10.5	10.7	10.7	10.7	10.5	10.8	10.8	11.1	11.0	11.1	10.8	10.8	10.5	10.7	10.7
70	7.82	7.62	7.67	7.33	7.33	7.62	7.57	7.62	7.33	7.33	7.67	7.62	7.82	7.62	7.67	7.33	7.33	7.62	7.57
75	4.51	4.36	4.43	4.45	4.30	4.60	4.60	4.60	4.30	4.45	4.43	4.36	4.51	4.36	4.43	4.45	4.30	4.60	4.60
80	0.93	0.92	0.91	1.01	0.99	1.00	0.99	1.00	0.99	1.01	0.91	0.92	0.93	0.92	0.91	1.01	0.99	1.00	0.99
85	0.71	0.62	0.61	0.62	0.64	0.63	0.63	0.63	0.64	0.62	0.61	0.62	0.71	0.62	0.61	0.62	0.64	0.63	0.63
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														
0	3838	3823	3869	3852	3809														
5	3705	3694	3721	3699	3668														
10	3206	3219	3224	3206	3181														
15	2433	2455	2460	2454	2432														
20	1677	1675	1686	1678	1674														
25	1080	1077	1077	1073	1064														
30	585	591	594	594	602														
35	224	225	221	224	223														
40	37.8	38.0	38.6	39.2	38.8														
45	20.9	20.7	20.7	20.9	20.9														
50	17.0	17.0	17.0	16.9	17.1														
55	14.9	14.6	14.6	14.7	14.6														
60	12.5	12.3	12.4	12.4	12.6														
65	10.7	10.5	10.8	10.8	11.1														
70	7.62	7.33	7.33	7.67	7.62														
75	4.60	4.30	4.45	4.43	4.36														
80	1.00	0.99	1.01	0.91	0.92														
85	0.63	0.64	0.62	0.61	0.62														
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 @5000K 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	0.152	18.0	0.984	10.99

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