

## Photometric Test Report

### Relevant Standards

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

Prepared For

**RAB Lighting Inc.**

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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		1599
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	88.8
			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	10.88
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	3045±175	3003
			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		90
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		0.152
(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 @3000K Black trim	-	250903018-S1
2	Goniophotometer Test	2025-09-16	COL18LM3 @3000K Black trim	-	250903018-S1
3	THD and PF Test	2025-09-16	COL18LM3 @3000K Black trim	-	250903018-S1

### Remark (If any):

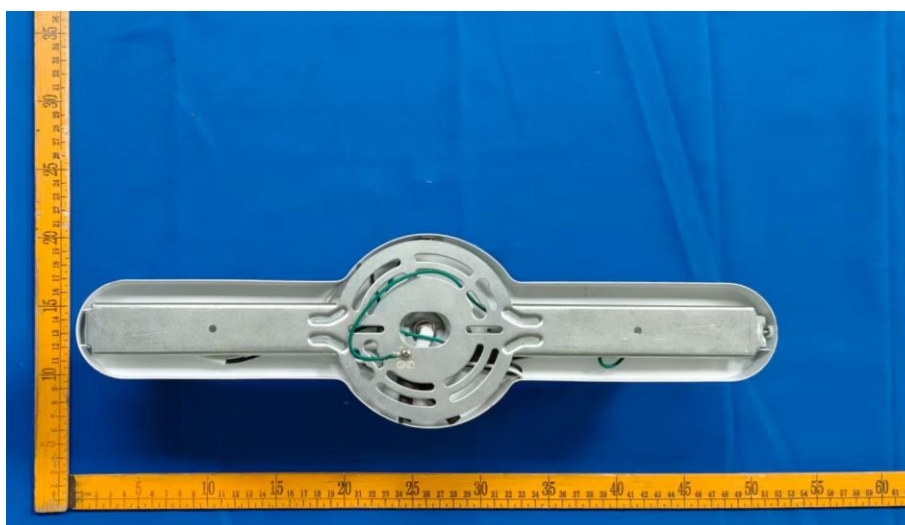
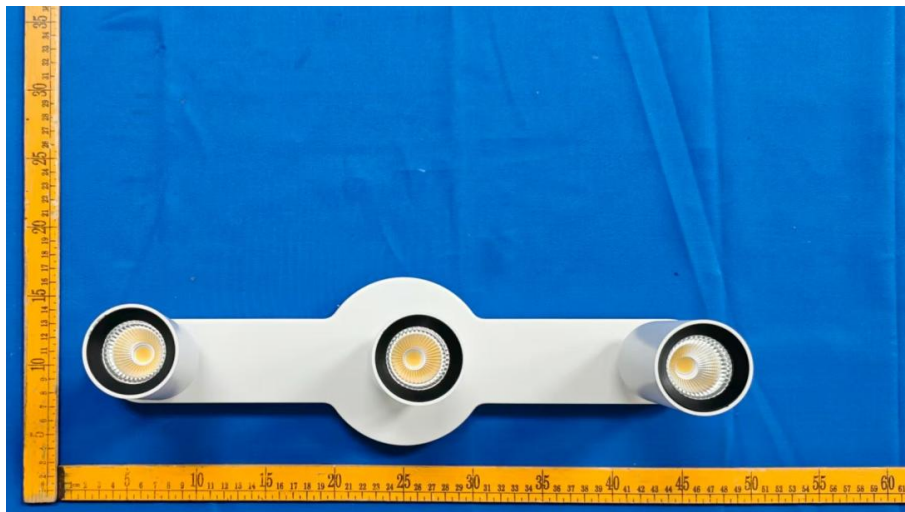
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### 3.0 Product Description

Luminaire Description: Model No. COL18LM3 @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>	COL18LM3 @3000K 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

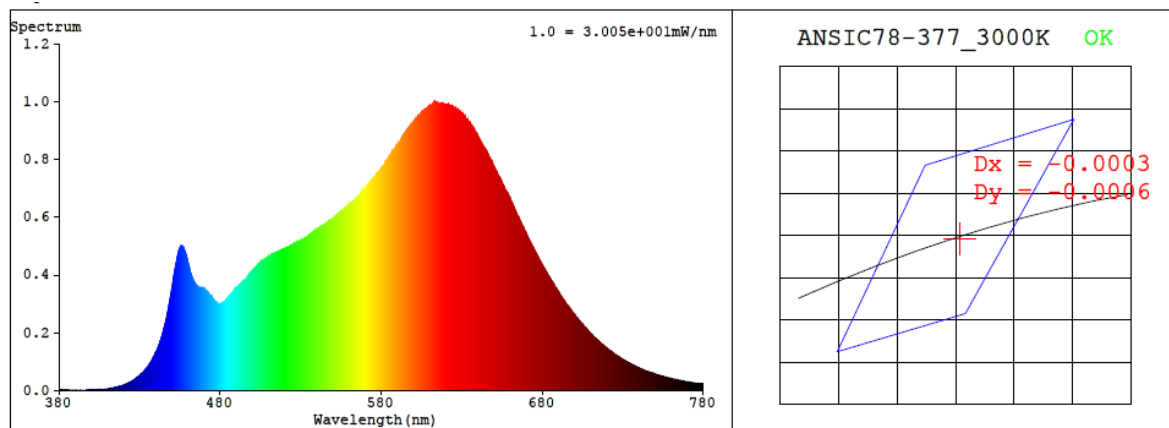
<b>Test Method</b>
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were 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	0.152	18.0	0.984

<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>
3003	92.9	58	-0.0002	1.6	90	96	-5%

## 4.1 Integrating Sphere Test



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4364$   $y = 0.4034$  /  $u' = 0.2505$   $v' = 0.5210$  ( $duv = -2.00e-04$ )

CCT= 3003K Prcp WL: Ld=582.9nm Purity=52.1%

Peak WL: Lp=614nm FWHM: =150.6nm Ratio: R=24.6% G=72.0% B=3.4%

Render Index: Ra = 92.9 AvgR = 91.0 TM30: Rf=91 Rg=97

EEL: 0.16828 A+

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

R8 =80 R9 =58 R10=100 R11=96 R12=85 R13=97 R14=98 R15=90

## 4.1 Integrating Sphere Test

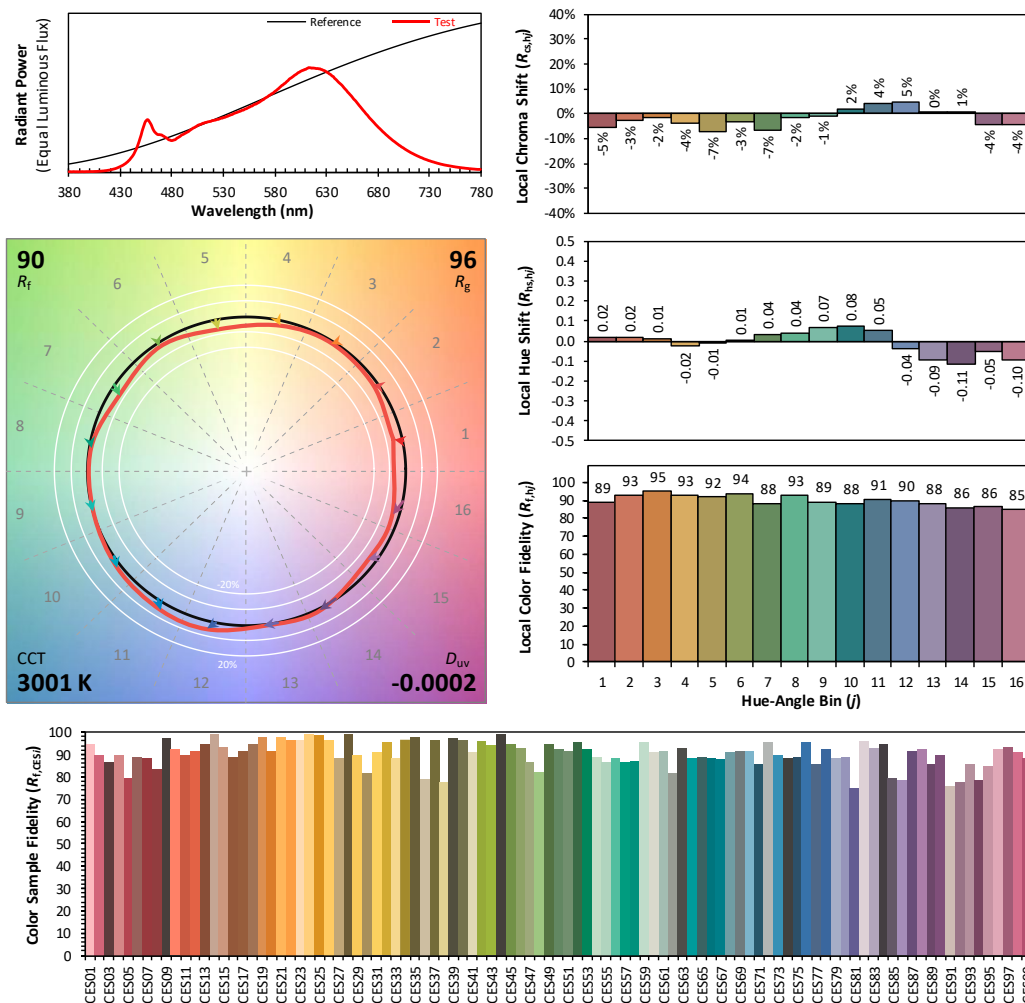
### ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/17

Model: COL18LM3 @3000K Black trim



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

$x$  0.4365  
 $y$  0.4033  
 $u'$  0.2506  
 $v'$  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	1.50E-06	447	2.62E-04	514	4.75E-04	581	7.76E-04	648	7.98E-04	715	1.71E-04
381	1.90E-06	448	2.90E-04	515	4.79E-04	582	7.83E-04	649	7.87E-04	716	1.66E-04
382	6.00E-07	449	3.22E-04	516	4.81E-04	583	7.92E-04	650	7.76E-04	717	1.61E-04
383	7.00E-07	450	3.52E-04	517	4.82E-04	584	7.99E-04	651	7.63E-04	718	1.56E-04
384	2.10E-06	451	3.90E-04	518	4.84E-04	585	8.10E-04	652	7.53E-04	719	1.52E-04
385	1.60E-06	452	4.21E-04	519	4.90E-04	586	8.18E-04	653	7.42E-04	720	1.47E-04
386	9.00E-07	453	4.51E-04	520	4.91E-04	587	8.28E-04	654	7.32E-04	721	1.43E-04
387	1.20E-06	454	4.78E-04	521	4.94E-04	588	8.32E-04	655	7.20E-04	722	1.38E-04
388	1.20E-06	455	4.91E-04	522	4.95E-04	589	8.43E-04	656	7.07E-04	723	1.35E-04
389	7.00E-07	456	4.99E-04	523	4.98E-04	590	8.47E-04	657	6.95E-04	724	1.30E-04
390	1.60E-06	457	4.96E-04	524	5.02E-04	591	8.57E-04	658	6.85E-04	725	1.25E-04
391	1.40E-06	458	4.81E-04	525	5.02E-04	592	8.67E-04	659	6.75E-04	726	1.22E-04
392	1.50E-06	459	4.65E-04	526	5.06E-04	593	8.75E-04	660	6.62E-04	727	1.18E-04
393	2.10E-06	460	4.47E-04	527	5.10E-04	594	8.86E-04	661	6.50E-04	728	1.15E-04
394	1.20E-06	461	4.22E-04	528	5.15E-04	595	8.94E-04	662	6.37E-04	729	1.11E-04
395	1.40E-06	462	4.01E-04	529	5.14E-04	596	9.00E-04	663	6.25E-04	730	1.07E-04
396	1.80E-06	463	3.85E-04	530	5.20E-04	597	9.07E-04	664	6.13E-04	731	1.05E-04
397	2.30E-06	464	3.74E-04	531	5.21E-04	598	9.14E-04	665	6.01E-04	732	1.01E-04
398	2.20E-06	465	3.65E-04	532	5.24E-04	599	9.23E-04	666	5.89E-04	733	9.78E-05
399	2.40E-06	466	3.58E-04	533	5.30E-04	600	9.29E-04	667	5.78E-04	734	9.52E-05
400	3.10E-06	467	3.56E-04	534	5.31E-04	601	9.35E-04	668	5.66E-04	735	9.24E-05
401	2.80E-06	468	3.57E-04	535	5.37E-04	602	9.43E-04	669	5.54E-04	736	8.89E-05
402	2.70E-06	469	3.54E-04	536	5.40E-04	603	9.51E-04	670	5.44E-04	737	8.65E-05
403	2.80E-06	470	3.53E-04	537	5.45E-04	604	9.54E-04	671	5.32E-04	738	8.31E-05
404	3.30E-06	471	3.46E-04	538	5.48E-04	605	9.62E-04	672	5.19E-04	739	8.08E-05
405	3.70E-06	472	3.41E-04	539	5.51E-04	606	9.66E-04	673	5.08E-04	740	7.80E-05
406	3.90E-06	473	3.34E-04	540	5.57E-04	607	9.71E-04	674	4.98E-04	741	7.53E-05
407	4.20E-06	474	3.28E-04	541	5.61E-04	608	9.73E-04	675	4.87E-04	742	7.29E-05
408	4.90E-06	475	3.24E-04	542	5.65E-04	609	9.80E-04	676	4.77E-04	743	7.08E-05
409	5.50E-06	476	3.14E-04	543	5.68E-04	610	9.81E-04	677	4.66E-04	744	6.83E-05
410	6.10E-06	477	3.07E-04	544	5.72E-04	611	9.88E-04	678	4.55E-04	745	6.62E-05
411	6.70E-06	478	3.05E-04	545	5.76E-04	612	9.92E-04	679	4.45E-04	746	6.42E-05
412	8.00E-06	479	3.00E-04	546	5.79E-04	613	9.98E-04	680	4.35E-04	747	6.26E-05
413	8.70E-06	480	3.00E-04	547	5.83E-04	614	9.96E-04	681	4.24E-04	748	6.05E-05
414	9.50E-06	481	3.02E-04	548	5.89E-04	615	9.96E-04	682	4.15E-04	749	5.92E-05
415	1.14E-05	482	3.06E-04	549	5.90E-04	616	9.92E-04	683	4.06E-04	750	5.68E-05
416	1.18E-05	483	3.07E-04	550	5.94E-04	617	9.94E-04	684	3.96E-04	751	5.54E-05
417	1.37E-05	484	3.15E-04	551	6.01E-04	618	9.93E-04	685	3.86E-04	752	5.36E-05
418	1.53E-05	485	3.23E-04	552	6.03E-04	619	9.92E-04	686	3.77E-04	753	5.20E-05
419	1.65E-05	486	3.28E-04	553	6.07E-04	620	9.89E-04	687	3.68E-04	754	5.01E-05
420	1.86E-05	487	3.35E-04	554	6.14E-04	621	9.89E-04	688	3.58E-04	755	4.88E-05
421	2.11E-05	488	3.41E-04	555	6.18E-04	622	9.89E-04	689	3.50E-04	756	4.66E-05
422	2.35E-05	489	3.50E-04	556	6.23E-04	623	9.86E-04	690	3.41E-04	757	4.56E-05
423	2.61E-05	490	3.55E-04	557	6.29E-04	624	9.86E-04	691	3.32E-04	758	4.39E-05
424	2.87E-05	491	3.59E-04	558	6.31E-04	625	9.80E-04	692	3.24E-04	759	4.28E-05
425	3.12E-05	492	3.65E-04	559	6.38E-04	626	9.78E-04	693	3.16E-04	760	4.12E-05
426	3.49E-05	493	3.70E-04	560	6.44E-04	627	9.73E-04	694	3.07E-04	761	4.01E-05
427	3.86E-05	494	3.76E-04	561	6.47E-04	628	9.70E-04	695	2.99E-04	762	3.88E-05
428	4.32E-05	495	3.81E-04	562	6.51E-04	629	9.65E-04	696	2.92E-04	763	3.76E-05
429	4.76E-05	496	3.86E-04	563	6.57E-04	630	9.59E-04	697	2.85E-04	764	3.67E-05
430	5.22E-05	497	3.94E-04	564	6.62E-04	631	9.52E-04	698	2.77E-04	765	3.50E-05
431	5.71E-05	498	4.01E-04	565	6.67E-04	632	9.47E-04	699	2.70E-04	766	3.42E-05
432	6.18E-05	499	4.08E-04	566	6.74E-04	633	9.38E-04	700	2.62E-04	767	3.29E-05
433	6.78E-05	500	4.14E-04	567	6.81E-04	634	9.33E-04	701	2.54E-04	768	3.24E-05
434	7.49E-05	501	4.21E-04	568	6.88E-04	635	9.25E-04	702	2.49E-04	769	3.04E-05
435	8.08E-05	502	4.24E-04	569	6.92E-04	636	9.16E-04	703	2.41E-04	770	3.00E-05
436	8.98E-05	503	4.32E-04	570	7.01E-04	637	9.11E-04	704	2.35E-04	771	2.92E-05
437	9.73E-05	504	4.36E-04	571	7.07E-04	638	8.98E-04	705	2.29E-04	772	2.80E-05
438	1.08E-04	505	4.44E-04	572	7.13E-04	639	8.89E-04	706	2.22E-04	773	2.72E-05
439	1.17E-04	506	4.49E-04	573	7.19E-04	640	8.80E-04	707	2.16E-04	774	2.65E-05
440	1.31E-04	507	4.53E-04	574	7.27E-04	641	8.69E-04	708	2.10E-04	775	2.54E-05
441	1.42E-04	508	4.55E-04	575	7.34E-04	642	8.58E-04	709	2.04E-04	776	2.46E-05
442	1.56E-04	509	4.59E-04	576	7.39E-04	643	8.49E-04	710	1.98E-04	777	2.38E-05
443	1.72E-04	510	4.65E-04	577	7.48E-04	644	8.41E-04	711	1.92E-04	778	2.35E-05
444	1.92E-04	511	4.65E-04	578	7.51E-04	645	8.32E-04	712	1.86E-04	779	2.36E-05
445	2.12E-04	512	4.71E-04	579	7.60E-04	646	8.22E-04	713	1.81E-04	780	2.36E-05
446	2.34E-04	513	4.73E-04	580	7.68E-04	647	8.09E-04	714	1.76E-04	N/A	N/A



## 4.0 LM-79 Measurement and Test Results

### 4.2 Goniophotometer Test

<b>Model No.</b>	COL18LM3 @3000K 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

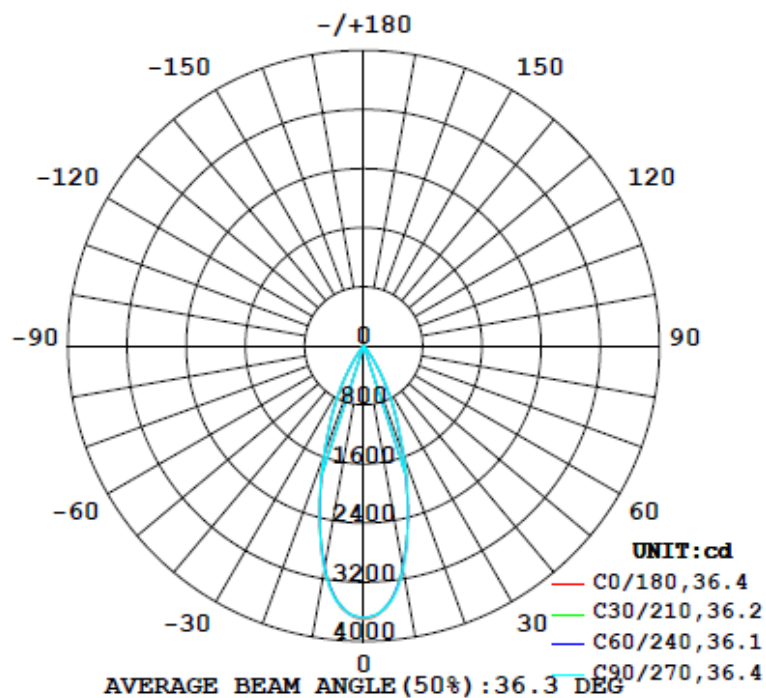
#### Test Result

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°)
1599	65.1	65.0	36.3	36.3	88.8	100.0%

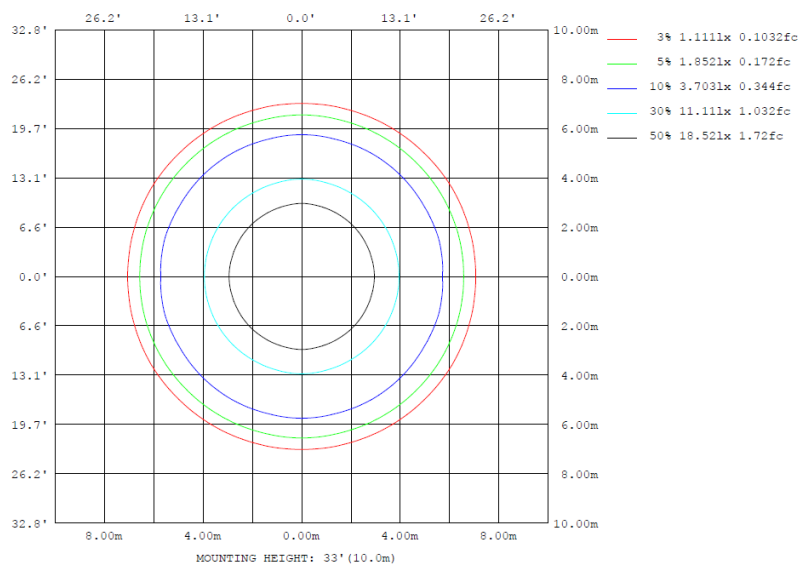
## 4.2 Goniophotometer Test

### Lighting Distribution Curve

#### LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



### Isolux Plot



## 4.2 Goniophotometer Test

### Zonal Lumen Summary

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	3071	3040	3086	3040	3071	3040	3086	3040	0- 10	322.5	322.5	20.2,20.2
20	1576	1563	1583	1563	1576	1563	1583	1563	10- 20	631.8	954.3	59.7,59.7
30	548.2	552.8	559.6	552.8	548.2	552.8	559.6	552.8	20- 30	457.5	1412	88.3,88.3
40	35.87	36.37	34.68	36.37	35.87	36.37	34.68	36.37	30- 40	143.5	1555	97.3,97.3
50	16.19	15.86	16.30	15.86	16.19	15.86	16.30	15.86	40- 50	16.23	1572	98.3,98.3
60	11.93	11.54	12.04	11.54	11.93	11.54	12.04	11.54	50- 60	12.37	1584	99.1,99.1
70	7.214	7.029	7.248	7.029	7.214	7.029	7.248	7.029	60- 70	9.698	1594	99.7,99.7
80	1.029	0.9140	1.001	0.9140	1.029	0.9140	1.001	0.9140	70- 80	4.389	1598	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.7140	1599	100,100
100	0	0	0	0	0	0	0	0	90-100	0	1599	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1599	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1599	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1599	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1599	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1599	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1599	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1599	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1599	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	322.54	0-10	322.54	20.18%
10-20	631.75	0-20	954.29	59.69%
20-30	457.47	0-30	1411.76	88.31%
30-40	143.54	0-40	1555.30	97.29%
40-50	16.23	0-50	1571.53	98.30%
50-60	12.37	0-60	1583.90	99.07%
60-70	9.70	0-70	1593.60	99.68%
70-80	4.39	0-80	1597.99	99.96%
80-90	0.71	0-90	1598.70	100.00%
90-100	0.00	0-100	1598.70	100.00%
100-110	0.00	0-110	1598.70	100.00%
110-120	0.00	0-120	1598.70	100.00%
120-130	0.00	0-130	1598.70	100.00%
130-140	0.00	0-140	1598.70	100.00%
140-150	0.00	0-150	1598.70	100.00%
150-160	0.00	0-160	1598.70	100.00%
160-170	0.00	0-170	1598.70	100.00%
170-180	0.00	0-180	1598.70	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	3703	3697	3679	3662	3678	3663	3681	3663	3678	3662	3679	3697	3703	3697	3679	3662	3678	3663	3681
5	3556	3554	3544	3533	3527	3531	3539	3531	3527	3533	3544	3554	3556	3554	3544	3533	3527	3531	3539
10	3071	3062	3042	3040	3054	3055	3086	3055	3054	3040	3042	3062	3071	3062	3042	3040	3054	3055	3086
15	2339	2310	2301	2298	2308	2303	2324	2303	2308	2298	2301	2310	2339	2310	2301	2298	2308	2303	2324
20	1576	1570	1576	1563	1560	1561	1583	1561	1560	1563	1576	1570	1576	1570	1576	1563	1560	1561	1583
25	1011	1002	989	995	996	996	1011	996	996	995	989	1002	1011	1002	989	995	996	996	1011
30	548	566	548	553	556	550	560	550	556	553	548	566	548	566	548	553	556	550	560
35	215	216	219	213	210	206	205	206	210	213	219	216	215	216	219	213	210	206	205
40	35.9	37.2	37.0	36.4	35.8	35.2	34.7	35.2	35.8	36.4	37.0	37.2	35.9	37.2	37.0	36.4	35.8	35.2	34.7
45	19.8	19.8	19.5	19.3	19.5	19.6	19.8	19.6	19.5	19.3	19.5	19.8	19.8	19.5	19.3	19.5	19.6	19.8	19.8
50	16.2	16.3	15.8	15.9	16.1	16.2	16.3	16.2	16.1	15.9	15.8	16.3	16.2	16.3	15.8	15.9	16.1	16.2	16.3
55	13.9	13.9	13.7	13.9	13.7	14.0	14.2	14.0	13.7	13.9	13.7	13.9	13.9	13.9	13.7	13.9	13.7	14.0	14.2
60	11.9	11.8	11.9	11.5	11.7	11.9	12.0	11.9	11.7	11.5	11.9	11.8	11.9	11.8	11.9	11.5	11.7	11.9	12.0
65	10.5	10.4	10.1	10.1	9.95	10.2	10.2	10.2	9.95	10.1	10.1	10.4	10.5	10.4	10.1	10.1	9.95	10.2	10.2
70	7.21	7.26	7.16	7.03	6.99	7.20	7.25	7.20	6.99	7.03	7.16	7.26	7.21	7.26	7.16	7.03	6.99	7.20	7.25
75	4.37	4.25	4.19	4.16	4.24	4.34	4.46	4.34	4.24	4.16	4.19	4.25	4.37	4.25	4.19	4.16	4.24	4.34	4.46
80	1.03	0.94	0.91	0.91	0.91	1.01	1.00	1.01	0.91	0.91	0.91	0.94	1.03	0.94	0.91	0.91	0.91	1.01	1.00
85	0.65	0.64	0.65	0.72	0.63	0.63	0.61	0.63	0.63	0.72	0.65	0.64	0.65	0.64	0.65	0.72	0.63	0.63	0.61
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) γ (DEG)	285	300	315	330	345														
0	3663	3678	3662	3679	3697														
5	3531	3527	3533	3544	3554														
10	3055	3054	3040	3042	3062														
15	2303	2308	2298	2301	2310														
20	1561	1560	1563	1576	1570														
25	996	996	995	989	1002														
30	550	556	553	548	566														
35	206	210	213	219	216														
40	35.2	35.8	36.4	37.0	37.2														
45	19.6	19.5	19.3	19.5	19.8														
50	16.2	16.1	15.9	15.8	16.3														
55	14.0	13.7	13.9	13.7	13.9														
60	11.9	11.7	11.5	11.9	11.8														
65	10.2	9.95	10.1	10.1	10.4														
70	7.20	6.99	7.03	7.16	7.26														
75	4.34	4.24	4.16	4.19	4.25														
80	1.01	0.91	0.91	0.91	0.94														
85	0.63	0.63	0.72	0.65	0.64														
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 @3000K 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	10.88

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