

## 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: 2025-09-16

Review by:

*Vincent Yuan*

Technical Lead: Vincent Yuan

Issue Date: 2025-09-16

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		571
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	93.6
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		6.1
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	11.25
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.982
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	5029±283	4996
			4 steps	5029±220	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		93.0
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		0.052
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		6.1
(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	COL6 @5000K Black trim	-	250903013-S1
2	Goniophotometer Test	2025-09-15	COL6 @5000K Black trim	-	250903013-S1
3	THD and PF Test	2025-09-15	COL6 @5000K Black trim	-	250903013-S1

### Remark (If any):

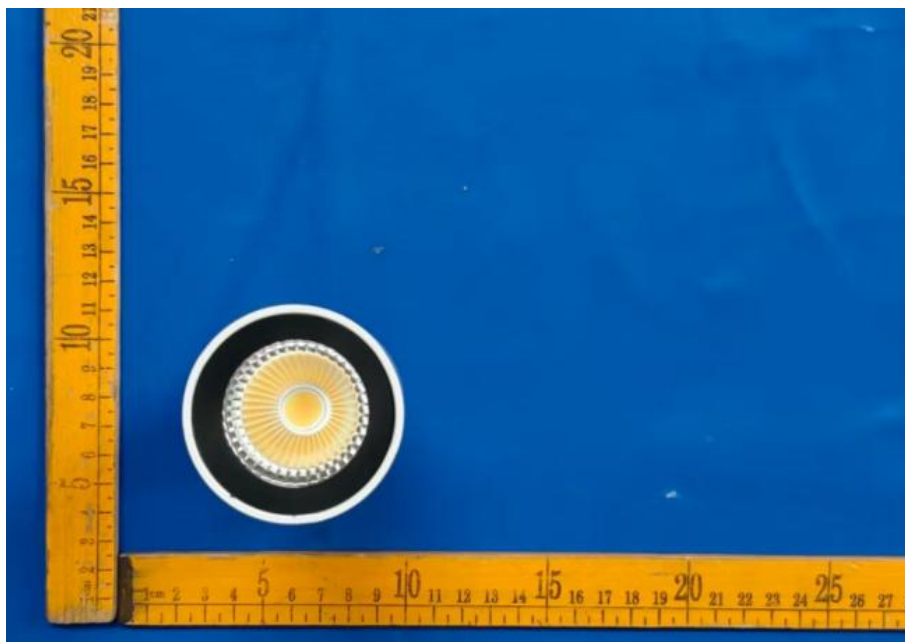
1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
3. This report must not be used by the client to claim product certification, approval, or endorsement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

### 3.0 Product Description

Luminaire Description: Model No. COL6 @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>	COL6 @5000K Black trim	<b>Sample ID</b>	250903013-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

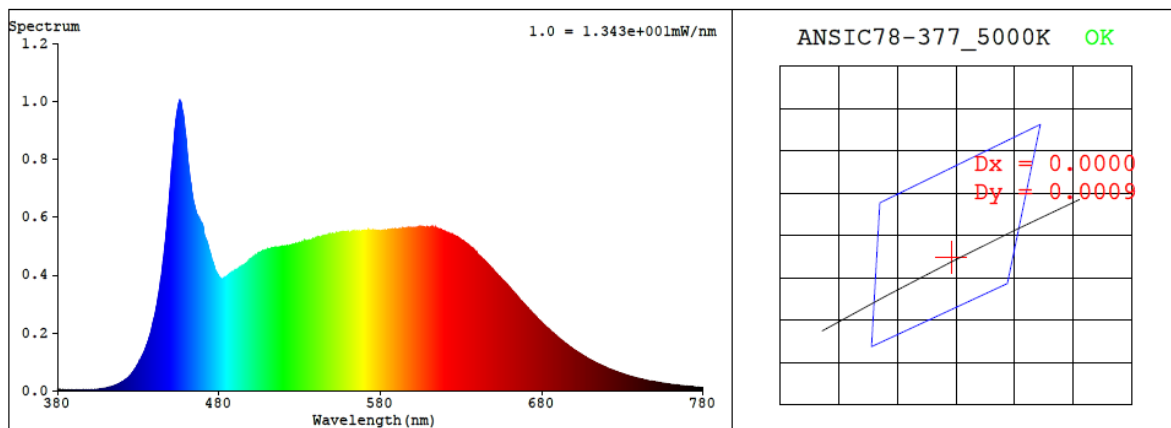
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.052	6.1	0.982

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4996	93.0	70	0.0005	1.6	90	97	-5%

## 4.1 Integrating Sphere Test



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3453$   $y = 0.3527$  /  $u' = 0.2111$   $v' = 0.4852$  ( $duv=4.60e-04$ )

CCT= 4996K Prcp WL:  $L_d=572.3nm$  Purity=9.4%

Peak WL:  $L_p=456nm$  FWHM:  $=26.8nm$  Ratio:R=17.5% G=76.5% B=6.0%

Render Index:  $R_a = 93.0$  AvgR = 90.7 TM30:Rf=91 Rg=98

EEL: 0.13461 A+

R1 =95 R2 =100 R3 =97 R4 =89 R5 =92 R6 =95 R7 =91

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

## 4.1 Integrating Sphere Test

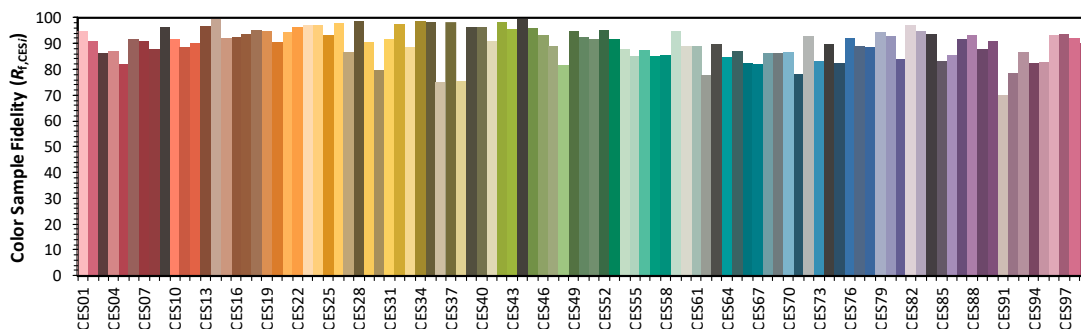
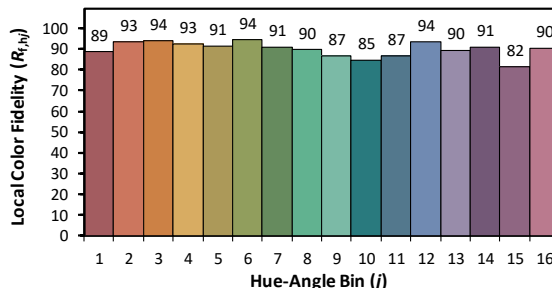
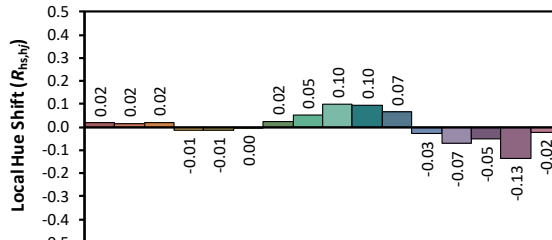
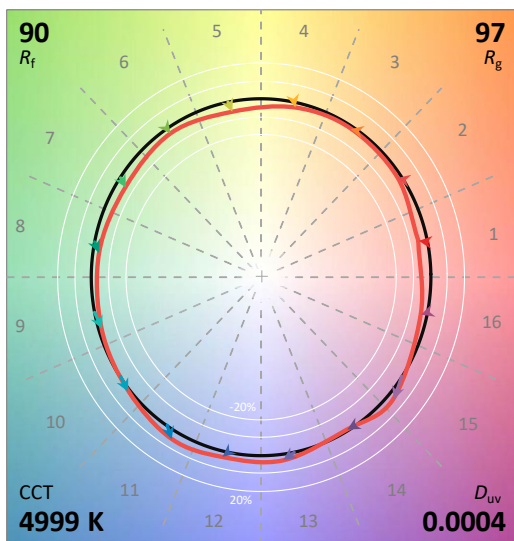
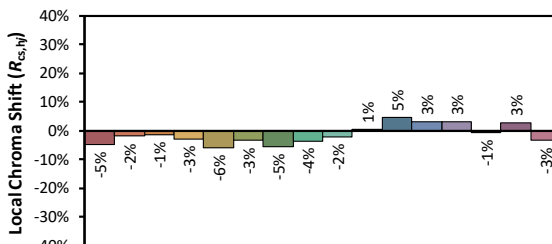
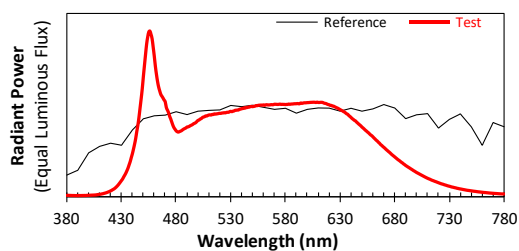
### ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/16

Model: COL6 @5000K Black trim



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

$x$  0.3452  
 $y$  0.3525  
 $u'$  0.2111  
 $v'$  0.4851

CIE 13.3-1995  
(CRI)  
 $R_a$  93  
 $R_9$  71



## 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	5.32E-04	514	4.92E-04	581	5.53E-04	648	4.29E-04	715	9.32E-05
381	4.40E-06	448	5.88E-04	515	4.96E-04	582	5.53E-04	649	4.24E-04	716	9.06E-05
382	3.80E-06	449	6.48E-04	516	4.95E-04	583	5.55E-04	650	4.16E-04	717	8.79E-05
383	3.80E-06	450	7.21E-04	517	4.96E-04	584	5.54E-04	651	4.11E-04	718	8.57E-05
384	3.50E-06	451	7.88E-04	518	4.97E-04	585	5.55E-04	652	4.05E-04	719	8.29E-05
385	3.20E-06	452	8.55E-04	519	4.99E-04	586	5.56E-04	653	3.98E-04	720	8.04E-05
386	3.20E-06	453	9.18E-04	520	4.99E-04	587	5.56E-04	654	3.93E-04	721	7.79E-05
387	3.10E-06	454	9.61E-04	521	4.99E-04	588	5.57E-04	655	3.87E-04	722	7.53E-05
388	2.50E-06	455	9.91E-04	522	5.01E-04	589	5.57E-04	656	3.82E-04	723	7.31E-05
389	3.10E-06	456	9.96E-04	523	5.02E-04	590	5.58E-04	657	3.75E-04	724	7.14E-05
390	2.20E-06	457	9.76E-04	524	5.03E-04	591	5.58E-04	658	3.69E-04	725	6.90E-05
391	3.00E-06	458	9.50E-04	525	5.02E-04	592	5.57E-04	659	3.64E-04	726	6.69E-05
392	3.10E-06	459	8.98E-04	526	5.05E-04	593	5.57E-04	660	3.58E-04	727	6.50E-05
393	2.90E-06	460	8.44E-04	527	5.06E-04	594	5.62E-04	661	3.51E-04	728	6.26E-05
394	3.30E-06	461	7.83E-04	528	5.06E-04	595	5.60E-04	662	3.44E-04	729	6.07E-05
395	3.20E-06	462	7.34E-04	529	5.09E-04	596	5.61E-04	663	3.37E-04	730	5.90E-05
396	3.60E-06	463	6.91E-04	530	5.11E-04	597	5.63E-04	664	3.32E-04	731	5.72E-05
397	3.30E-06	464	6.58E-04	531	5.10E-04	598	5.63E-04	665	3.25E-04	732	5.49E-05
398	3.90E-06	465	6.34E-04	532	5.12E-04	599	5.63E-04	666	3.19E-04	733	5.37E-05
399	4.40E-06	466	6.13E-04	533	5.14E-04	600	5.64E-04	667	3.11E-04	734	5.19E-05
400	4.50E-06	467	6.02E-04	534	5.18E-04	601	5.64E-04	668	3.06E-04	735	5.04E-05
401	4.90E-06	468	5.92E-04	535	5.18E-04	602	5.65E-04	669	3.00E-04	736	4.89E-05
402	5.20E-06	469	5.80E-04	536	5.19E-04	603	5.66E-04	670	2.94E-04	737	4.69E-05
403	5.60E-06	470	5.69E-04	537	5.19E-04	604	5.66E-04	671	2.88E-04	738	4.57E-05
404	5.80E-06	471	5.35E-04	538	5.24E-04	605	5.66E-04	672	2.82E-04	739	4.41E-05
405	6.10E-06	472	5.19E-04	539	5.25E-04	606	5.66E-04	673	2.76E-04	740	4.29E-05
406	6.60E-06	473	5.04E-04	540	5.28E-04	607	5.66E-04	674	2.70E-04	741	4.17E-05
407	7.30E-06	474	4.82E-04	541	5.28E-04	608	5.65E-04	675	2.65E-04	742	4.02E-05
408	8.50E-06	475	4.66E-04	542	5.32E-04	609	5.67E-04	676	2.59E-04	743	3.90E-05
409	9.30E-06	476	4.47E-04	543	5.30E-04	610	5.65E-04	677	2.52E-04	744	3.77E-05
410	1.02E-05	477	4.28E-04	544	5.35E-04	611	5.65E-04	678	2.47E-04	745	3.64E-05
411	1.12E-05	478	4.13E-04	545	5.34E-04	612	5.66E-04	679	2.42E-04	746	3.52E-05
412	1.28E-05	479	4.03E-04	546	5.36E-04	613	5.66E-04	680	2.36E-04	747	3.41E-05
413	1.41E-05	480	3.94E-04	547	5.37E-04	614	5.65E-04	681	2.30E-04	748	3.34E-05
414	1.62E-05	481	3.89E-04	548	5.40E-04	615	5.62E-04	682	2.25E-04	749	3.23E-05
415	1.78E-05	482	3.86E-04	549	5.41E-04	616	5.60E-04	683	2.20E-04	750	3.14E-05
416	1.99E-05	483	3.89E-04	550	5.40E-04	617	5.59E-04	684	2.15E-04	751	3.04E-05
417	2.23E-05	484	3.92E-04	551	5.41E-04	618	5.55E-04	685	2.10E-04	752	2.94E-05
418	2.51E-05	485	3.95E-04	552	5.42E-04	619	5.53E-04	686	2.04E-04	753	2.86E-05
419	2.77E-05	486	4.00E-04	553	5.46E-04	620	5.51E-04	687	2.00E-04	754	2.78E-05
420	3.12E-05	487	4.05E-04	554	5.46E-04	621	5.47E-04	688	1.94E-04	755	2.68E-05
421	3.43E-05	488	4.08E-04	555	5.47E-04	622	5.47E-04	689	1.90E-04	756	2.59E-05
422	3.88E-05	489	4.12E-04	556	5.48E-04	623	5.43E-04	690	1.84E-04	757	2.50E-05
423	4.23E-05	490	4.17E-04	557	5.49E-04	624	5.43E-04	691	1.80E-04	758	2.44E-05
424	4.73E-05	491	4.18E-04	558	5.49E-04	625	5.39E-04	692	1.76E-04	759	2.36E-05
425	5.32E-05	492	4.21E-04	559	5.49E-04	626	5.36E-04	693	1.72E-04	760	2.28E-05
426	5.99E-05	493	4.25E-04	560	5.50E-04	627	5.33E-04	694	1.67E-04	761	2.21E-05
427	6.73E-05	494	4.28E-04	561	5.48E-04	628	5.30E-04	695	1.63E-04	762	2.13E-05
428	7.57E-05	495	4.32E-04	562	5.51E-04	629	5.26E-04	696	1.59E-04	763	2.10E-05
429	8.46E-05	496	4.37E-04	563	5.51E-04	630	5.22E-04	697	1.54E-04	764	2.01E-05
430	9.37E-05	497	4.40E-04	564	5.50E-04	631	5.18E-04	698	1.51E-04	765	1.95E-05
431	1.03E-04	498	4.44E-04	565	5.50E-04	632	5.15E-04	699	1.46E-04	766	1.87E-05
432	1.15E-04	499	4.50E-04	566	5.51E-04	633	5.10E-04	700	1.42E-04	767	1.80E-05
433	1.27E-04	500	4.57E-04	567	5.52E-04	634	5.07E-04	701	1.39E-04	768	1.76E-05
434	1.39E-04	501	4.59E-04	568	5.51E-04	635	5.02E-04	702	1.35E-04	769	1.70E-05
435	1.53E-04	502	4.65E-04	569	5.52E-04	636	4.97E-04	703	1.31E-04	770	1.66E-05
436	1.69E-04	503	4.68E-04	570	5.54E-04	637	4.93E-04	704	1.28E-04	771	1.59E-05
437	1.89E-04	504	4.74E-04	571	5.54E-04	638	4.86E-04	705	1.24E-04	772	1.55E-05
438	2.09E-04	505	4.77E-04	572	5.54E-04	639	4.81E-04	706	1.21E-04	773	1.51E-05
439	2.33E-04	506	4.79E-04	573	5.53E-04	640	4.75E-04	707	1.17E-04	774	1.46E-05
440	2.56E-04	507	4.84E-04	574	5.54E-04	641	4.68E-04	708	1.14E-04	775	1.40E-05
441	2.84E-04	508	4.83E-04	575	5.55E-04	642	4.63E-04	709	1.10E-04	776	1.37E-05
442	3.14E-04	509	4.87E-04	576	5.53E-04	643	4.57E-04	710	1.07E-04	777	1.32E-05
443	3.48E-04	510	4.89E-04	577	5.54E-04	644	4.54E-04	711	1.04E-04	778	1.27E-05
444	3.90E-04	511	4.90E-04	578	5.53E-04	645	4.47E-04	712	1.02E-04	779	1.27E-05
445	4.28E-04	512	4.89E-04	579	5.53E-04	646	4.41E-04	713	9.85E-05	780	1.27E-05
446	4.76E-04	513	4.93E-04	580	5.52E-04	647	4.35E-04	714	9.55E-05	N/A	N/A



## 4.0 LM-79 Measurement and Test Results

### 4.2 Goniophotometer Test

<b>Model No.</b>	COL6 @5000K Black trim	<b>Sample ID</b>	250903013-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	0.052	6.1	0.982
<b>NON-WORST CASE</b>	N/A	N/A	N/A	N/A	N/A

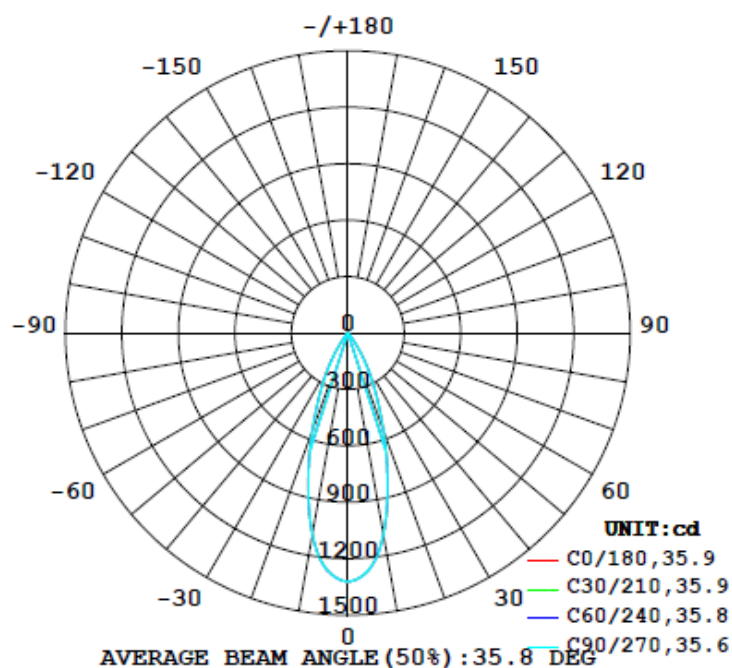
### Test Result

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°)
571	65.7	64.8	35.9	35.7	93.6	100.0%

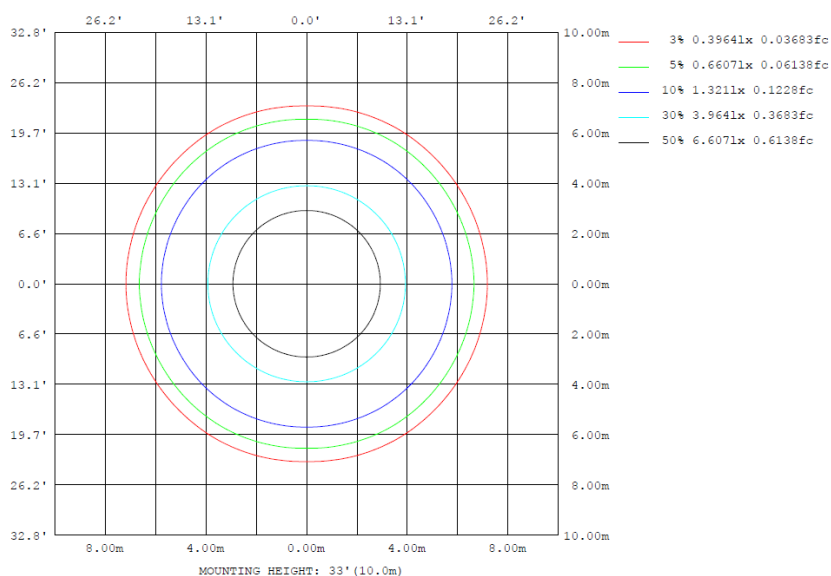
## 4.2 Goniophotometer Test

### 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	1088	1088	1088	1088	1088	1088	1088	1088	0- 10	115.2	115.2	20.2,20.2
20	557.4	555.3	550.4	555.3	557.4	555.3	550.4	555.3	10- 20	224.1	339.3	59.5,59.5
30	203.4	201.9	193.1	201.9	203.4	201.9	193.1	201.9	20- 30	160.9	500.3	87.6,87.6
40	14.46	14.71	12.52	14.71	14.46	14.71	12.52	14.71	30- 40	54.25	554.5	97.2,97.2
50	5.881	5.948	5.597	5.948	5.881	5.948	5.597	5.948	40- 50	6.192	560.7	98.2,98.2
60	4.457	4.486	4.113	4.486	4.457	4.486	4.113	4.486	50- 60	4.585	565.3	99,99
70	2.836	2.822	2.464	2.822	2.836	2.822	2.464	2.822	60- 70	3.680	569.0	99.7,99.7
80	0.2416	0.2317	0.1082	0.2317	0.2416	0.2317	0.1082	0.2317	70- 80	1.761	570.7	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0443	570.8	100,100
100	0	0	0	0	0	0	0	0	90-100	0	570.8	100,100
110	0	0	0	0	0	0	0	0	100-110	0	570.8	100,100
120	0	0	0	0	0	0	0	0	110-120	0	570.8	100,100
130	0	0	0	0	0	0	0	0	120-130	0	570.8	100,100
140	0	0	0	0	0	0	0	0	130-140	0	570.8	100,100
150	0	0	0	0	0	0	0	0	140-150	0	570.8	100,100
160	0	0	0	0	0	0	0	0	150-160	0	570.8	100,100
170	0	0	0	0	0	0	0	0	160-170	0	570.8	100,100
180	0	0	0	0	0	0	0	0	170-180	0	570.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

	Zonal (lm)		Total (lm)	Percent
0-10	115.20	0-10	115.20	20.18%
10-20	224.14	0-20	339.34	59.45%
20-30	160.92	0-30	500.26	87.65%
30-40	54.25	0-40	554.51	97.15%
40-50	6.19	0-50	560.70	98.24%
50-60	4.58	0-60	565.28	99.04%
60-70	3.68	0-70	568.96	99.68%
70-80	1.76	0-80	570.72	99.99%
80-90	0.04	0-90	570.76	100.00%
90-100	0.00	0-100	570.76	100.00%
100-110	0.00	0-110	570.76	100.00%
110-120	0.00	0-120	570.76	100.00%
120-130	0.00	0-130	570.76	100.00%
130-140	0.00	0-140	570.76	100.00%
140-150	0.00	0-150	570.76	100.00%
150-160	0.00	0-160	570.76	100.00%
160-170	0.00	0-170	570.76	100.00%
170-180	0.00	0-180	570.76	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
y (DEG)	0	1321	1322	1322	1322	1322	1322	1322	1322	1322	1322	1322	1321	1322	1322	1322	1322	1322	1322
5	1265	1264	1265	1265	1266	1265	1265	1265	1266	1265	1265	1264	1265	1264	1265	1265	1266	1265	1265
10	1088	1088	1087	1088	1089	1087	1088	1087	1089	1088	1087	1088	1088	1088	1087	1088	1089	1087	1088
15	821	819	820	819	818	817	816	817	818	819	820	819	821	819	820	819	818	817	816
20	557	557	557	555	554	552	550	552	554	555	557	557	557	557	557	555	554	552	550
25	352	352	351	350	348	346	344	346	348	350	351	352	352	352	351	350	348	346	344
30	203	202	201	202	200	195	193	195	200	202	201	202	203	202	201	202	200	195	193
35	86.8	85.4	84.2	83.4	83.8	81.1	77.6	81.1	83.8	83.4	84.2	85.4	86.8	85.4	84.2	83.4	83.8	81.1	77.6
40	14.5	14.7	14.7	14.7	13.9	13.1	12.5	13.1	13.9	14.7	14.7	14.7	14.5	14.7	14.7	14.7	13.9	13.1	12.5
45	7.18	7.25	7.34	7.31	7.26	7.15	6.97	7.15	7.26	7.31	7.34	7.25	7.18	7.25	7.34	7.31	7.26	7.15	6.97
50	5.88	5.95	6.01	5.95	5.89	5.78	5.60	5.78	5.89	5.95	6.01	5.95	5.88	5.95	6.01	5.95	5.89	5.78	5.60
55	5.17	5.24	5.31	5.27	5.18	5.02	4.86	5.02	5.18	5.27	5.31	5.24	5.17	5.24	5.31	5.27	5.18	5.02	4.86
60	4.46	4.47	4.52	4.49	4.41	4.24	4.11	4.24	4.41	4.49	4.52	4.47	4.46	4.47	4.52	4.49	4.41	4.24	4.11
65	3.96	3.95	3.97	3.97	3.88	3.70	3.57	3.70	3.88	3.97	3.97	3.95	3.96	3.95	3.97	3.97	3.88	3.70	3.57
70	2.84	2.83	2.82	2.82	2.74	2.61	2.46	2.61	2.74	2.82	2.82	2.83	2.84	2.83	2.82	2.82	2.74	2.61	2.46
75	1.91	1.97	2.02	1.93	1.84	1.69	1.52	1.69	1.84	1.93	2.02	1.97	1.91	1.97	2.02	1.93	1.84	1.69	1.52
80	0.24	0.27	0.27	0.23	0.19	0.15	0.11	0.15	0.19	0.23	0.27	0.27	0.24	0.27	0.27	0.23	0.19	0.15	0.11
85	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
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														
y (DEG)	0	1322	1322	1322	1322	1322													
5	1265	1266	1265	1265	1264														
10	1087	1089	1088	1087	1088														
15	817	818	819	820	819														
20	552	554	555	557	557														
25	346	348	350	351	352														
30	195	200	202	201	202														
35	81.1	83.8	83.4	84.2	85.4														
40	13.1	13.9	14.7	14.7	14.7														
45	7.15	7.26	7.31	7.34	7.25														
50	5.78	5.89	5.95	6.01	5.95														
55	5.02	5.18	5.27	5.31	5.24														
60	4.24	4.41	4.49	4.52	4.47														
65	3.70	3.88	3.97	3.97	3.95														
70	2.61	2.74	2.82	2.82	2.83														
75	1.69	1.84	1.93	2.02	1.97														
80	0.15	0.19	0.23	0.27	0.27														
85	0.03	0.03	0.03	0.03	0.03														
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>	COL6 @5000K Black trim	<b>Sample ID</b>	250903013-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 <math>25 \pm 1^\circ\text{C}</math>. 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	0.052	6.1	0.982	11.25

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