

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

Surface Mount Luminaires				
Requirement Category	Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	250		529
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		5.9
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	11.01
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	3023
		4 steps	3045±100	
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		60
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		0.050
(Goniophotometer – Section 4.2)		Non-Worst Case		N/A
Power (Input Wattage – W)				
(Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Worst Case		5.9
(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	COL6SM @3000K Black trim	-	250903015-S1
2	Goniophotometer Test	2025-09-15	COL6SM @3000K Black trim	-	250903015-S1
3	THD and PF Test	2025-09-15	COL6SM @3000K Black trim	-	250903015-S1

Remark (If any):

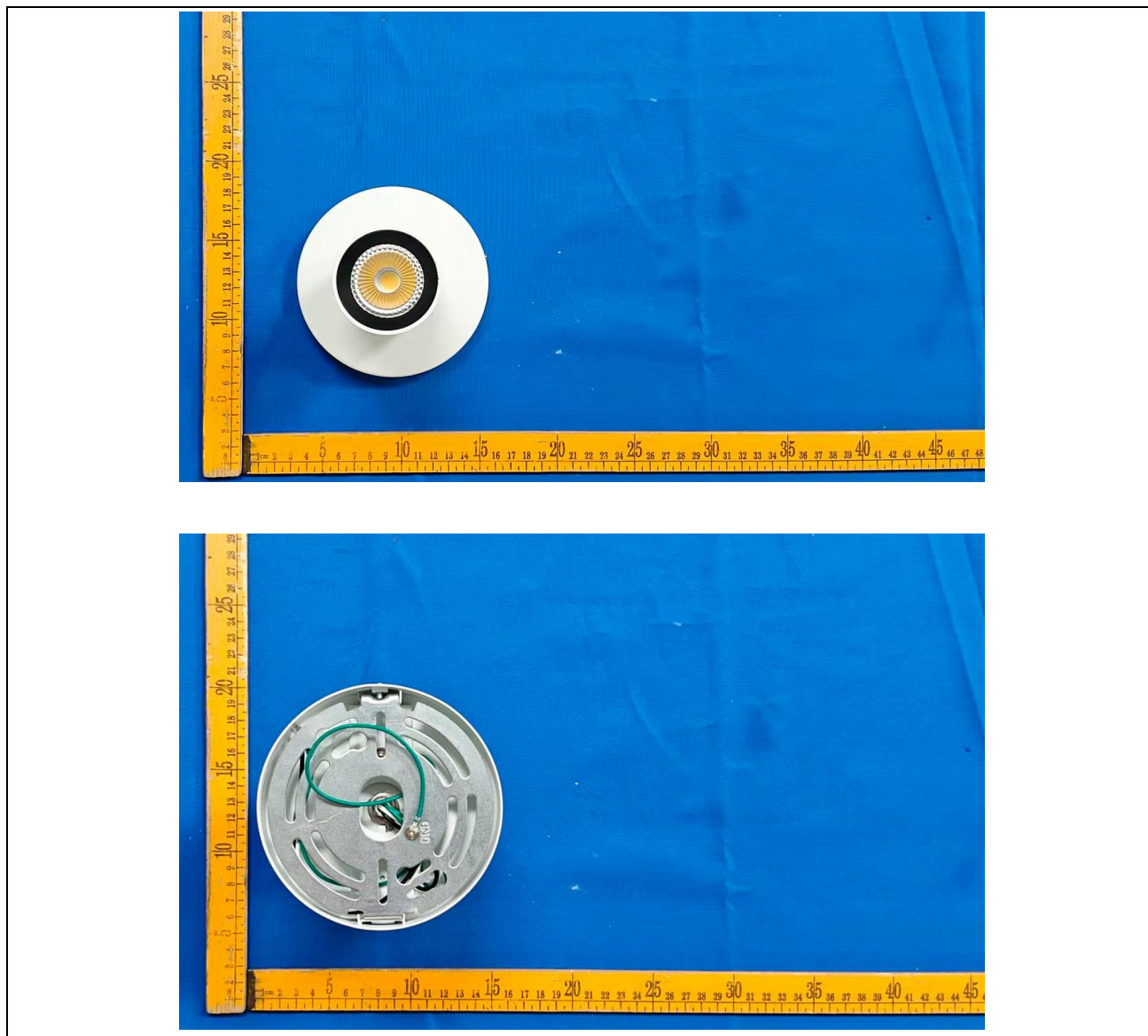
1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
3. This report must not be used by the client to claim product certification, approval, or endorsement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

3.0 Product Description

Luminaire Description: Model No. COL6SM @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

Model No.	COL6SM @3000K Black trim	Sample ID	250903015-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	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±1°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 ±0.2 percent under load.

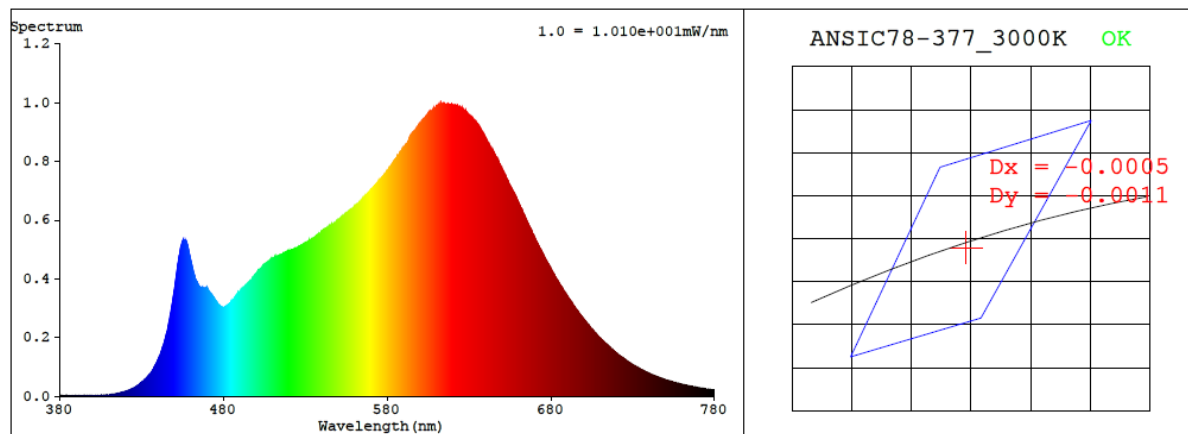
The sample was measured using 4π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to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

Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.050	5.9	0.984

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3023	93.0	60	-0.0004	0.9	90	96	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4348$ $y = 0.4024$ / $u' = 0.2499$ $v' = 0.5204$ ($duv = -3.70e-04$)

CCT= 3023K Prcp WL: Ld=582.9nm Purity=51.3%

Peak WL: Lp=613nm FWHM: =152.4nm Ratio:R=24.5% G=72.0% B=3.5%

Render Index: Ra = 93.0 AvgR = 91.2 TM30:Rf=91 Rg=97

EEL: 0.13608 A+

R1 =95 R2 =99 R3 =95 R4 =93 R5 =95 R6 =96 R7 =89

R8 =80 R9 =60 R10=100 R11=96 R12=84 R13=97 R14=98 R15=90

4.1 Integrating Sphere Test

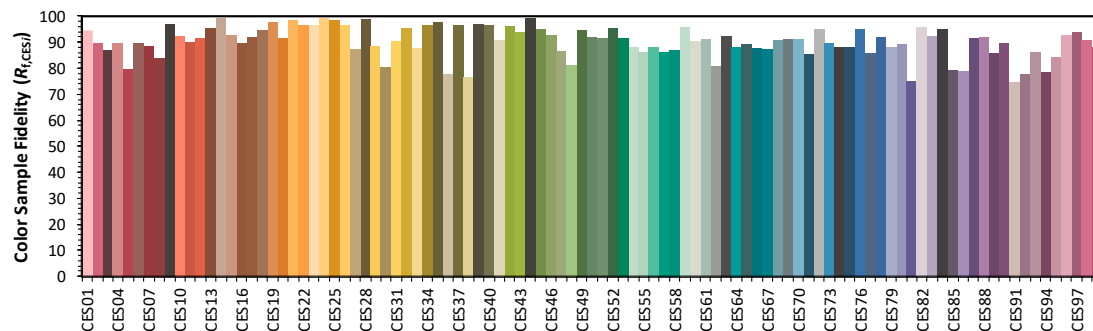
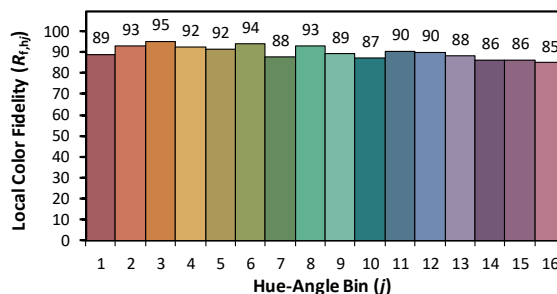
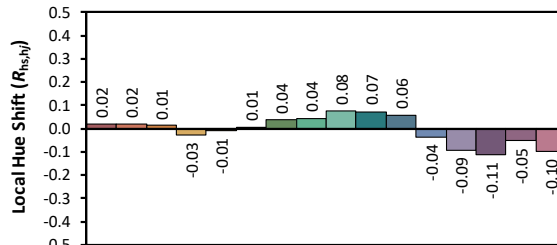
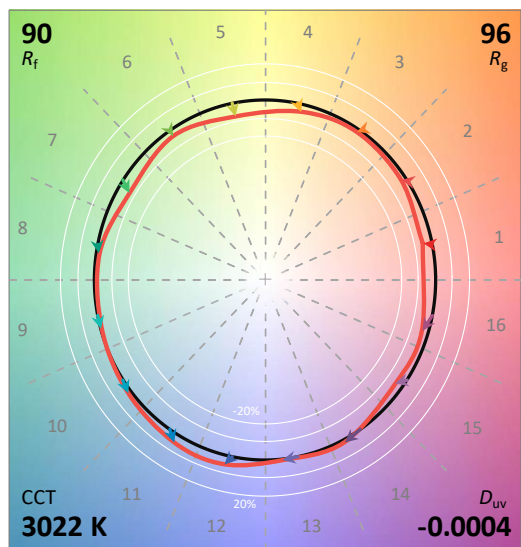
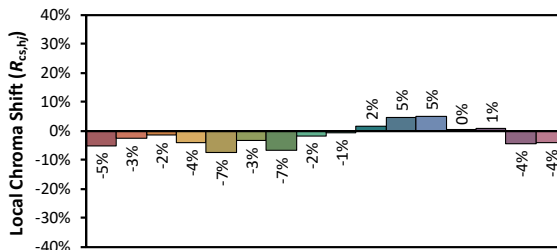
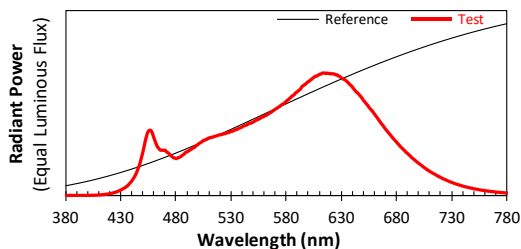
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/16

Model: COL6SM @3000K Black trim



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

x 0.4348
 y 0.4023
 u' 0.2499
 v' 0.5204

CIE 13.3-1995
(CRI)

R_a 93
 R_9 60

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	2.59E-04	514	4.78E-04	581	7.76E-04	648	8.00E-04	715	1.73E-04
381	1.50E-06	448	2.91E-04	515	4.83E-04	582	7.82E-04	649	7.88E-04	716	1.67E-04
382	1.70E-06	449	3.26E-04	516	4.84E-04	583	7.91E-04	650	7.74E-04	717	1.62E-04
383	1.30E-06	450	3.63E-04	517	4.87E-04	584	7.98E-04	651	7.64E-04	718	1.58E-04
384	3.20E-06	451	4.03E-04	518	4.91E-04	585	8.08E-04	652	7.53E-04	719	1.53E-04
385	2.00E-06	452	4.46E-04	519	4.93E-04	586	8.15E-04	653	7.41E-04	720	1.48E-04
386	1.50E-06	453	4.79E-04	520	4.94E-04	587	8.19E-04	654	7.32E-04	721	1.43E-04
387	1.60E-06	454	5.10E-04	521	4.97E-04	588	8.31E-04	655	7.18E-04	722	1.39E-04
388	1.70E-06	455	5.26E-04	522	4.99E-04	589	8.39E-04	656	7.08E-04	723	1.35E-04
389	1.20E-06	456	5.31E-04	523	5.01E-04	590	8.45E-04	657	6.97E-04	724	1.31E-04
390	1.60E-06	457	5.30E-04	524	5.04E-04	591	8.54E-04	658	6.88E-04	725	1.27E-04
391	1.60E-06	458	5.17E-04	525	5.06E-04	592	8.60E-04	659	6.75E-04	726	1.22E-04
392	1.60E-06	459	4.92E-04	526	5.10E-04	593	8.68E-04	660	6.63E-04	727	1.19E-04
393	1.90E-06	460	4.66E-04	527	5.12E-04	594	8.84E-04	661	6.50E-04	728	1.15E-04
394	1.90E-06	461	4.42E-04	528	5.14E-04	595	8.92E-04	662	6.39E-04	729	1.11E-04
395	2.80E-06	462	4.17E-04	529	5.19E-04	596	8.99E-04	663	6.25E-04	730	1.08E-04
396	2.00E-06	463	3.97E-04	530	5.23E-04	597	9.04E-04	664	6.15E-04	731	1.04E-04
397	1.30E-06	464	3.87E-04	531	5.24E-04	598	9.12E-04	665	6.01E-04	732	1.02E-04
398	2.10E-06	465	3.75E-04	532	5.27E-04	599	9.21E-04	666	5.89E-04	733	9.78E-05
399	2.10E-06	466	3.70E-04	533	5.33E-04	600	9.27E-04	667	5.77E-04	734	9.48E-05
400	2.00E-06	467	3.70E-04	534	5.36E-04	601	9.32E-04	668	5.66E-04	735	9.20E-05
401	2.30E-06	468	3.69E-04	535	5.38E-04	602	9.42E-04	669	5.53E-04	736	8.93E-05
402	3.10E-06	469	3.68E-04	536	5.43E-04	603	9.46E-04	670	5.42E-04	737	8.64E-05
403	3.10E-06	470	3.70E-04	537	5.47E-04	604	9.55E-04	671	5.29E-04	738	8.37E-05
404	3.10E-06	471	3.58E-04	538	5.51E-04	605	9.62E-04	672	5.20E-04	739	8.10E-05
405	3.50E-06	472	3.52E-04	539	5.54E-04	606	9.70E-04	673	5.08E-04	740	7.83E-05
406	3.50E-06	473	3.45E-04	540	5.59E-04	607	9.70E-04	674	4.98E-04	741	7.53E-05
407	4.30E-06	474	3.38E-04	541	5.66E-04	608	9.74E-04	675	4.87E-04	742	7.33E-05
408	4.50E-06	475	3.27E-04	542	5.69E-04	609	9.79E-04	676	4.76E-04	743	7.10E-05
409	5.20E-06	476	3.20E-04	543	5.72E-04	610	9.86E-04	677	4.65E-04	744	6.87E-05
410	5.50E-06	477	3.12E-04	544	5.74E-04	611	9.87E-04	678	4.55E-04	745	6.65E-05
411	6.40E-06	478	3.08E-04	545	5.81E-04	612	9.92E-04	679	4.45E-04	746	6.45E-05
412	7.00E-06	479	3.05E-04	546	5.86E-04	613	9.96E-04	680	4.36E-04	747	6.27E-05
413	7.70E-06	480	3.01E-04	547	5.87E-04	614	9.97E-04	681	4.24E-04	748	6.07E-05
414	8.90E-06	481	3.05E-04	548	5.92E-04	615	9.96E-04	682	4.15E-04	749	5.87E-05
415	9.40E-06	482	3.09E-04	549	5.93E-04	616	9.92E-04	683	4.04E-04	750	5.63E-05
416	1.07E-05	483	3.11E-04	550	5.99E-04	617	9.96E-04	684	3.95E-04	751	5.47E-05
417	1.20E-05	484	3.17E-04	551	6.04E-04	618	9.94E-04	685	3.86E-04	752	5.34E-05
418	1.36E-05	485	3.24E-04	552	6.10E-04	619	9.92E-04	686	3.77E-04	753	5.21E-05
419	1.49E-05	486	3.30E-04	553	6.16E-04	620	9.91E-04	687	3.69E-04	754	5.02E-05
420	1.67E-05	487	3.37E-04	554	6.18E-04	621	9.91E-04	688	3.59E-04	755	4.80E-05
421	1.85E-05	488	3.46E-04	555	6.23E-04	622	9.90E-04	689	3.50E-04	756	4.68E-05
422	2.03E-05	489	3.55E-04	556	6.28E-04	623	9.90E-04	690	3.43E-04	757	4.47E-05
423	2.28E-05	490	3.57E-04	557	6.33E-04	624	9.86E-04	691	3.34E-04	758	4.41E-05
424	2.53E-05	491	3.62E-04	558	6.38E-04	625	9.82E-04	692	3.26E-04	759	4.21E-05
425	2.78E-05	492	3.68E-04	559	6.40E-04	626	9.82E-04	693	3.17E-04	760	4.11E-05
426	3.12E-05	493	3.74E-04	560	6.46E-04	627	9.74E-04	694	3.07E-04	761	3.93E-05
427	3.48E-05	494	3.80E-04	561	6.52E-04	628	9.72E-04	695	3.01E-04	762	3.86E-05
428	3.83E-05	495	3.85E-04	562	6.54E-04	629	9.65E-04	696	2.93E-04	763	3.73E-05
429	4.29E-05	496	3.91E-04	563	6.61E-04	630	9.56E-04	697	2.86E-04	764	3.57E-05
430	4.74E-05	497	3.95E-04	564	6.66E-04	631	9.49E-04	698	2.78E-04	765	3.49E-05
431	5.19E-05	498	4.05E-04	565	6.73E-04	632	9.48E-04	699	2.71E-04	766	3.41E-05
432	5.71E-05	499	4.11E-04	566	6.77E-04	633	9.42E-04	700	2.64E-04	767	3.28E-05
433	6.24E-05	500	4.18E-04	567	6.84E-04	634	9.36E-04	701	2.57E-04	768	3.23E-05
434	6.83E-05	501	4.26E-04	568	6.90E-04	635	9.28E-04	702	2.50E-04	769	3.07E-05
435	7.41E-05	502	4.30E-04	569	6.96E-04	636	9.19E-04	703	2.44E-04	770	2.96E-05
436	8.17E-05	503	4.36E-04	570	7.03E-04	637	9.10E-04	704	2.36E-04	771	2.84E-05
437	9.08E-05	504	4.44E-04	571	7.08E-04	638	8.99E-04	705	2.29E-04	772	2.79E-05
438	1.02E-04	505	4.49E-04	572	7.14E-04	639	8.93E-04	706	2.23E-04	773	2.70E-05
439	1.11E-04	506	4.52E-04	573	7.20E-04	640	8.81E-04	707	2.16E-04	774	2.59E-05
440	1.23E-04	507	4.57E-04	574	7.25E-04	641	8.70E-04	708	2.10E-04	775	2.50E-05
441	1.36E-04	508	4.61E-04	575	7.34E-04	642	8.59E-04	709	2.04E-04	776	2.47E-05
442	1.51E-04	509	4.65E-04	576	7.40E-04	643	8.48E-04	710	1.98E-04	777	2.37E-05
443	1.67E-04	510	4.70E-04	577	7.45E-04	644	8.39E-04	711	1.93E-04	778	2.26E-05
444	1.86E-04	511	4.72E-04	578	7.52E-04	645	8.32E-04	712	1.88E-04	779	2.24E-05
445	2.10E-04	512	4.74E-04	579	7.58E-04	646	8.21E-04	713	1.82E-04	780	2.25E-05
446	2.32E-04	513	4.76E-04	580	7.68E-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.	COL6SM @3000K Black trim	Sample ID	250903015-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	25.0	Humidity (%RH)	40.8

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

Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	120.0	60	0.050	5.9	0.984
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

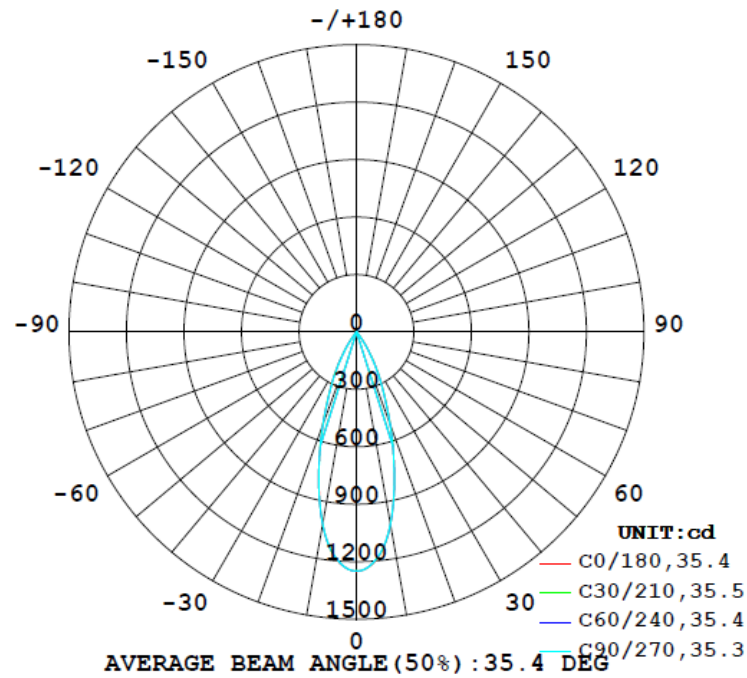
Test Result

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°)
529	65.1	64.1	35.5	35.4	89.7	100.0%

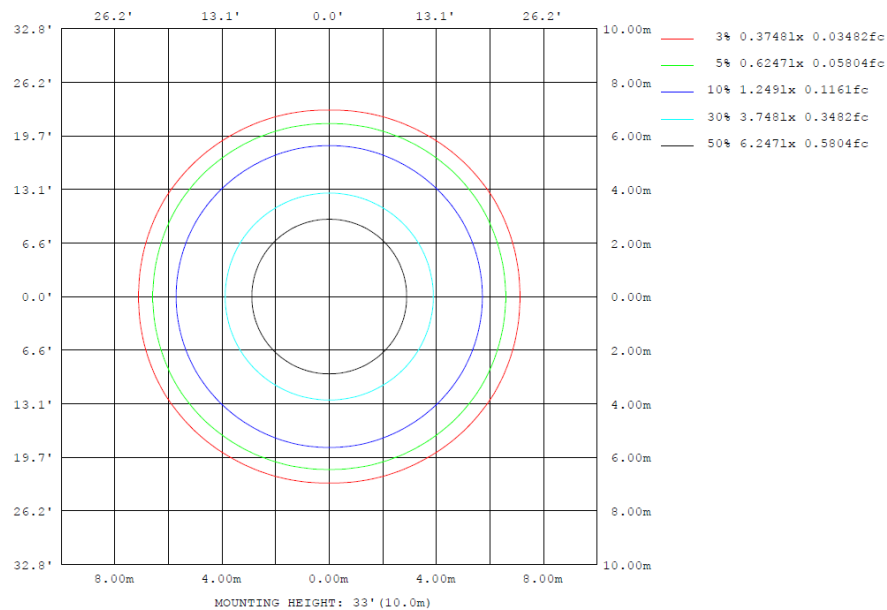
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

Zonal Lumen Summary

y	C0	C45	C90	C135	C180	C225	C270	C315	y	± zone	± total	%lum,lamp
10	1019	1023	1018	1023	1019	1023	1018	1023	0- 10	108.4	108.4	20.5,20.5
20	516.9	515.8	511.3	515.8	516.9	515.8	511.3	515.8	10- 20	209.3	317.6	60,60
30	184.3	179.4	172.6	179.4	184.3	179.4	172.6	179.4	20- 30	147.5	465.1	87.9,87.9
40	12.69	12.57	10.94	12.57	12.69	12.57	10.94	12.57	30- 40	48.09	513.2	97,97
50	5.715	5.714	5.437	5.714	5.715	5.714	5.437	5.714	40- 50	5.710	518.9	98.1,98.1
60	4.502	4.492	4.376	4.492	4.502	4.492	4.376	4.492	50- 60	4.519	523.4	98.9,98.9
70	3.015	2.907	2.673	2.907	3.015	2.907	2.673	2.907	60- 70	3.806	527.3	99.6,99.6
80	0.3245	0.3093	0.2663	0.3093	0.3245	0.3093	0.2663	0.3093	70- 80	1.871	529.1	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.1227	529.2	100,100
100	0	0	0	0	0	0	0	0	90-100	0	529.2	100,100
110	0	0	0	0	0	0	0	0	100-110	0	529.2	100,100
120	0	0	0	0	0	0	0	0	110-120	0	529.2	100,100
130	0	0	0	0	0	0	0	0	120-130	0	529.2	100,100
140	0	0	0	0	0	0	0	0	130-140	0	529.2	100,100
150	0	0	0	0	0	0	0	0	140-150	0	529.2	100,100
160	0	0	0	0	0	0	0	0	150-160	0	529.2	100,100
170	0	0	0	0	0	0	0	0	160-170	0	529.2	100,100
180	0	0	0	0	0	0	0	0	170-180	0	529.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	108.38	0-10	108.38	20.48%
10-20	209.25	0-20	317.63	60.02%
20-30	147.50	0-30	465.13	87.88%
30-40	48.09	0-40	513.22	96.97%
40-50	5.71	0-50	518.93	98.05%
50-60	4.52	0-60	523.45	98.90%
60-70	3.81	0-70	527.26	99.62%
70-80	1.87	0-80	529.13	99.98%
80-90	0.12	0-90	529.25	100.00%
90-100	0.00	0-100	529.25	100.00%
100-110	0.00	0-110	529.25	100.00%
110-120	0.00	0-120	529.25	100.00%
120-130	0.00	0-130	529.25	100.00%
130-140	0.00	0-140	529.25	100.00%
140-150	0.00	0-150	529.25	100.00%
150-160	0.00	0-160	529.25	100.00%
160-170	0.00	0-170	529.25	100.00%
170-180	0.00	0-180	529.25	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	1249	1249	1248	1249	1249	1248	1249	1249	1249	1248	1249	1249	1249	1248	1249	1249	1249	1248
5	1194	1193	1191	1191	1190	1190	1188	1190	1190	1191	1191	1193	1194	1193	1191	1191	1190	1190	1188
10	1019	1020	1022	1023	1021	1022	1018	1022	1021	1023	1022	1020	1019	1020	1022	1023	1021	1022	1018
15	762	764	765	765	764	764	762	764	764	765	765	764	762	764	765	765	764	764	762
20	517	517	516	516	514	513	511	513	514	516	516	517	517	517	516	516	514	513	511
25	322	322	321	320	318	317	316	317	318	320	321	322	322	322	321	320	318	317	316
30	184	184	184	179	176	175	173	175	176	179	184	184	184	184	184	179	176	175	173
35	76.3	77.5	78.2	78.5	71.3	67.9	64.6	67.9	71.3	75.5	78.2	77.5	76.3	77.5	78.2	75.5	71.3	67.9	64.6
40	12.7	12.7	12.6	12.6	12.3	11.5	10.9	11.5	12.3	12.6	12.6	12.7	12.7	12.7	12.6	12.6	12.3	11.5	10.9
45	6.91	6.97	6.96	6.86	6.73	6.59	6.50	6.59	6.73	6.86	6.96	6.97	6.91	6.97	6.96	6.86	6.73	6.59	6.50
50	5.71	5.76	5.78	5.71	5.60	5.51	5.44	5.51	5.60	5.71	5.78	5.76	5.71	5.76	5.78	5.71	5.60	5.51	5.44
55	5.07	5.12	5.14	5.10	5.05	4.97	4.90	4.97	5.05	5.10	5.14	5.12	5.07	5.12	5.14	5.10	5.05	4.97	4.90
60	4.50	4.49	4.53	4.49	4.50	4.46	4.38	4.46	4.50	4.49	4.53	4.49	4.50	4.49	4.53	4.49	4.50	4.46	4.38
65	4.06	4.07	4.07	3.99	3.97	3.93	3.85	3.93	3.97	3.99	4.07	4.07	4.06	4.07	3.99	3.97	3.93	3.85	3.85
70	3.01	3.01	3.00	2.91	2.85	2.76	2.67	2.76	2.85	2.91	3.00	3.01	3.01	3.01	3.00	2.91	2.85	2.76	2.67
75	2.07	2.08	2.04	1.96	1.89	1.83	1.69	1.83	1.89	1.96	2.04	2.08	2.07	2.08	2.04	1.96	1.89	1.83	1.69
80	0.32	0.34	0.34	0.31	0.29	0.27	0.27	0.29	0.31	0.34	0.34	0.32	0.34	0.34	0.31	0.29	0.27	0.27	0.27
85	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10
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	1249	1249	1248	1249														
5	1190	1190	1191	1191	1193														
10	1022	1021	1023	1022	1020														
15	764	764	765	765	764														
20	513	514	516	516	517														
25	317	318	320	321	322														
30	175	176	179	184	184														
35	67.9	71.3	75.5	78.2	77.5														
40	11.5	12.3	12.6	12.6	12.7														
45	6.59	6.73	6.86	6.96	6.97														
50	5.51	5.60	5.71	5.78	5.76														
55	4.97	5.05	5.10	5.14	5.12														
60	4.46	4.50	4.49	4.53	4.49														
65	3.93	3.97	3.99	4.07	4.07														
70	2.76	2.85	2.91	3.00	3.01														
75	1.83	1.89	1.96	2.04	2.08														
80	0.27	0.29	0.31	0.34	0.34														
85	0.10	0.10	0.10	0.11	0.11														
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

Model No.	COL6SM @3000K Black trim	Sample ID	250903015-S1
Temperature (°C)	25.4	Humidity (%RH)	41.0

Test Method
<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	0.050	5.9	0.984	11.01

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*****