

Photometric Test Report

Relevant Standards

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

Prepared For

RAB Lighting Inc.

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Issue Date: 2025-09-16

Revised Date: N/A

1.0 Test Summary

DLC Technical Requirements V6.0

Recessed Mount Luminaires					
Requirement Category		Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	250		554
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	95.5
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		5.8
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	17.50
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.935
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	3045±175	2994
			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		0.052
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		5.8
(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	COL6RM @3000K Black trim	-	250903014-S1
2	Goniophotometer Test	2025-09-15	COL6RM @3000K Black trim	-	250903014-S1
3	THD and PF Test	2025-09-15	COL6RM @3000K Black trim	-	250903014-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. COL6RM @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.	COL6RM @3000K Black trim	Sample ID	250903014-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

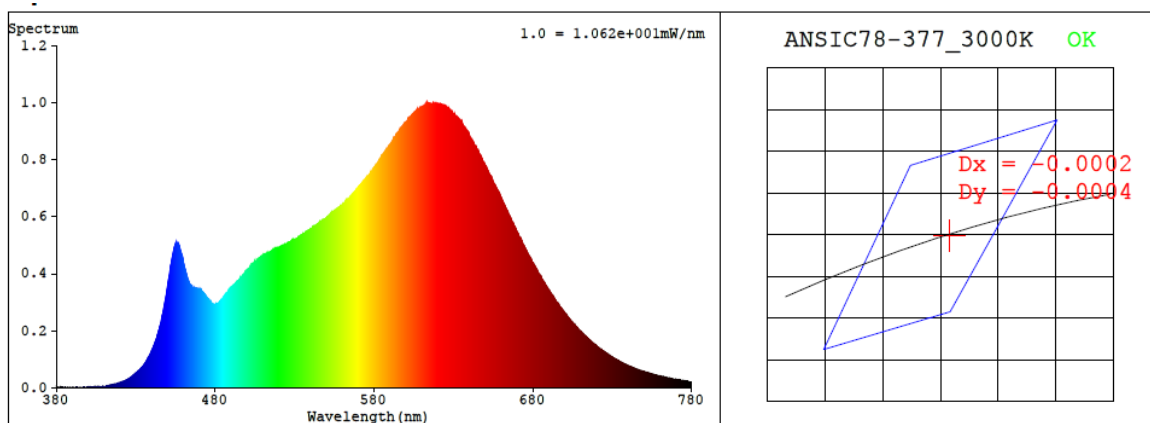
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	5.8	0.935

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
2994	92.9	58	-0.0001	1.9	90	96	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4371$ $y = 0.4038$ / $u' = 0.2508$ $v' = 0.5213$ ($duv = -1.46e-04$)

CCT= 2994K Prcp WL: Ld=582.9nm Purity=52.4%

Peak WL: Lp=613nm FWHM: =151.7nm Ratio:R=24.6% G=72.0% B=3.4%

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

EEI: 0.00000 A++ Highest

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

R8 =80 R9 =58 R10=99 R11=96 R12=85 R13=97 R14=98 R15=90

4.1 Integrating Sphere Test

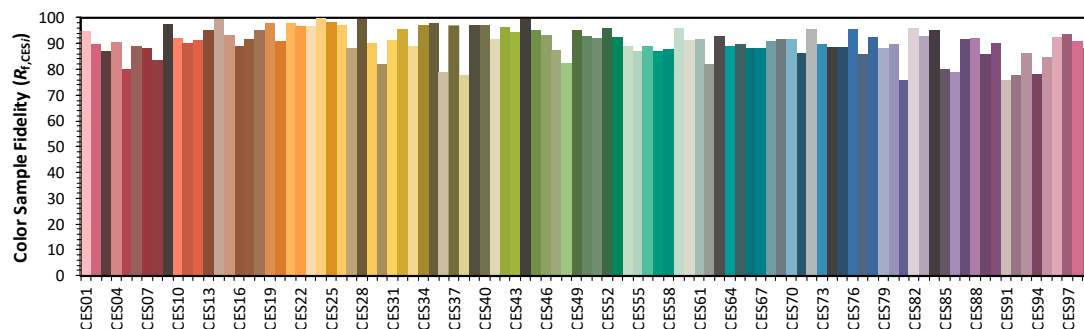
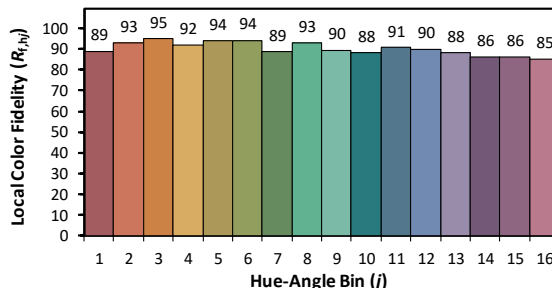
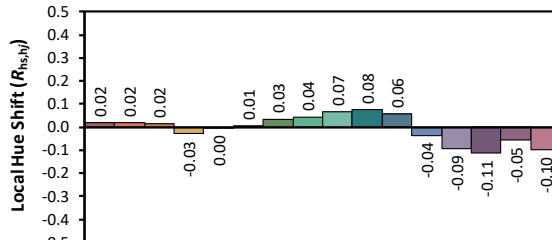
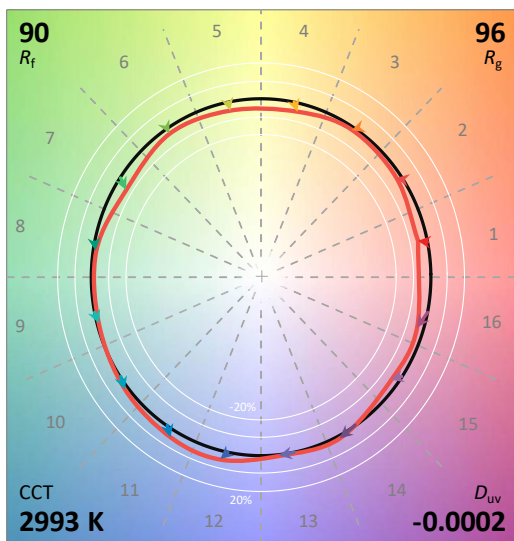
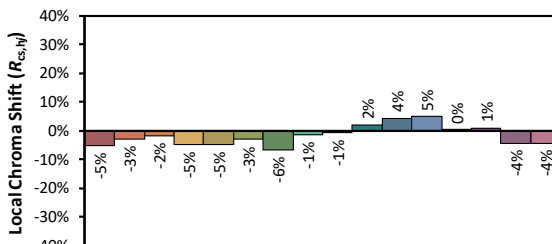
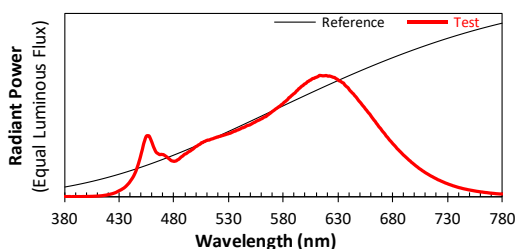
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/16

Model: COL6RM @3000K Black trim



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

x 0.4372
 y 0.4037
 u' 0.2509
 v' 0.5213

CIE 13.3-1995
(CRI)
 R_a 93
 R_9 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	3.40E-06	447	2.63E-04	514	4.75E-04	581	7.80E-04	648	8.01E-04	715	1.71E-04
381	1.40E-06	448	2.93E-04	515	4.77E-04	582	7.86E-04	649	7.89E-04	716	1.67E-04
382	1.60E-06	449	3.23E-04	516	4.80E-04	583	7.94E-04	650	7.79E-04	717	1.62E-04
383	1.90E-06	450	3.59E-04	517	4.85E-04	584	8.02E-04	651	7.69E-04	718	1.57E-04
384	2.20E-06	451	3.92E-04	518	4.86E-04	585	8.15E-04	652	7.56E-04	719	1.52E-04
385	2.10E-06	452	4.32E-04	519	4.91E-04	586	8.20E-04	653	7.46E-04	720	1.47E-04
386	4.00E-07	453	4.61E-04	520	4.91E-04	587	8.29E-04	654	7.36E-04	721	1.42E-04
387	1.50E-06	454	4.89E-04	521	4.96E-04	588	8.36E-04	655	7.22E-04	722	1.38E-04
388	2.00E-06	455	5.02E-04	522	4.97E-04	589	8.45E-04	656	7.13E-04	723	1.35E-04
389	1.60E-06	456	5.02E-04	523	5.00E-04	590	8.51E-04	657	7.00E-04	724	1.30E-04
390	1.70E-06	457	5.01E-04	524	5.03E-04	591	8.59E-04	658	6.89E-04	725	1.27E-04
391	1.90E-06	458	4.84E-04	525	5.06E-04	592	8.71E-04	659	6.80E-04	726	1.22E-04
392	1.50E-06	459	4.63E-04	526	5.09E-04	593	8.77E-04	660	6.66E-04	727	1.19E-04
393	2.00E-06	460	4.40E-04	527	5.11E-04	594	8.89E-04	661	6.53E-04	728	1.14E-04
394	1.60E-06	461	4.14E-04	528	5.15E-04	595	8.95E-04	662	6.41E-04	729	1.11E-04
395	1.50E-06	462	3.94E-04	529	5.17E-04	596	9.04E-04	663	6.29E-04	730	1.08E-04
396	1.90E-06	463	3.75E-04	530	5.20E-04	597	9.11E-04	664	6.20E-04	731	1.04E-04
397	2.30E-06	464	3.63E-04	531	5.22E-04	598	9.16E-04	665	6.05E-04	732	1.01E-04
398	2.00E-06	465	3.57E-04	532	5.26E-04	599	9.26E-04	666	5.94E-04	733	9.77E-05
399	2.20E-06	466	3.51E-04	533	5.31E-04	600	9.31E-04	667	5.81E-04	734	9.49E-05
400	2.90E-06	467	3.47E-04	534	5.35E-04	601	9.37E-04	668	5.70E-04	735	9.10E-05
401	3.40E-06	468	3.49E-04	535	5.40E-04	602	9.47E-04	669	5.60E-04	736	8.85E-05
402	2.70E-06	469	3.48E-04	536	5.40E-04	603	9.50E-04	670	5.47E-04	737	8.56E-05
403	3.30E-06	470	3.47E-04	537	5.47E-04	604	9.58E-04	671	5.35E-04	738	8.28E-05
404	3.60E-06	471	3.42E-04	538	5.49E-04	605	9.61E-04	672	5.25E-04	739	8.00E-05
405	3.70E-06	472	3.36E-04	539	5.52E-04	606	9.69E-04	673	5.14E-04	740	7.74E-05
406	4.10E-06	473	3.30E-04	540	5.57E-04	607	9.74E-04	674	5.00E-04	741	7.48E-05
407	4.70E-06	474	3.22E-04	541	5.61E-04	608	9.74E-04	675	4.91E-04	742	7.30E-05
408	4.80E-06	475	3.15E-04	542	5.67E-04	609	9.80E-04	676	4.80E-04	743	7.05E-05
409	5.60E-06	476	3.08E-04	543	5.68E-04	610	9.83E-04	677	4.68E-04	744	6.80E-05
410	6.20E-06	477	3.00E-04	544	5.72E-04	611	9.87E-04	678	4.58E-04	745	6.60E-05
411	6.60E-06	478	2.96E-04	545	5.76E-04	612	9.92E-04	679	4.48E-04	746	6.39E-05
412	7.30E-06	479	2.94E-04	546	5.83E-04	613	9.99E-04	680	4.37E-04	747	6.22E-05
413	8.10E-06	480	2.92E-04	547	5.86E-04	614	9.97E-04	681	4.28E-04	748	6.02E-05
414	8.90E-06	481	2.94E-04	548	5.89E-04	615	9.97E-04	682	4.18E-04	749	5.81E-05
415	1.03E-05	482	2.96E-04	549	5.91E-04	616	9.95E-04	683	4.08E-04	750	5.64E-05
416	1.19E-05	483	3.03E-04	550	5.96E-04	617	9.96E-04	684	3.96E-04	751	5.48E-05
417	1.30E-05	484	3.07E-04	551	6.00E-04	618	9.96E-04	685	3.88E-04	752	5.33E-05
418	1.45E-05	485	3.15E-04	552	6.06E-04	619	9.98E-04	686	3.79E-04	753	5.17E-05
419	1.63E-05	486	3.24E-04	553	6.11E-04	620	9.95E-04	687	3.70E-04	754	4.99E-05
420	1.81E-05	487	3.31E-04	554	6.14E-04	621	9.92E-04	688	3.61E-04	755	4.83E-05
421	2.03E-05	488	3.37E-04	555	6.21E-04	622	9.94E-04	689	3.51E-04	756	4.66E-05
422	2.24E-05	489	3.46E-04	556	6.25E-04	623	9.91E-04	690	3.42E-04	757	4.50E-05
423	2.45E-05	490	3.52E-04	557	6.29E-04	624	9.89E-04	691	3.35E-04	758	4.39E-05
424	2.72E-05	491	3.55E-04	558	6.33E-04	625	9.85E-04	692	3.26E-04	759	4.23E-05
425	3.02E-05	492	3.62E-04	559	6.38E-04	626	9.82E-04	693	3.18E-04	760	4.12E-05
426	3.34E-05	493	3.69E-04	560	6.42E-04	627	9.80E-04	694	3.09E-04	761	3.98E-05
427	3.70E-05	494	3.74E-04	561	6.47E-04	628	9.72E-04	695	3.01E-04	762	3.91E-05
428	4.22E-05	495	3.78E-04	562	6.54E-04	629	9.68E-04	696	2.94E-04	763	3.74E-05
429	4.69E-05	496	3.86E-04	563	6.58E-04	630	9.61E-04	697	2.85E-04	764	3.62E-05
430	5.17E-05	497	3.91E-04	564	6.60E-04	631	9.54E-04	698	2.78E-04	765	3.51E-05
431	5.59E-05	498	3.99E-04	565	6.69E-04	632	9.52E-04	699	2.70E-04	766	3.45E-05
432	6.08E-05	499	4.07E-04	566	6.75E-04	633	9.45E-04	700	2.63E-04	767	3.31E-05
433	6.68E-05	500	4.14E-04	567	6.82E-04	634	9.39E-04	701	2.56E-04	768	3.18E-05
434	7.20E-05	501	4.18E-04	568	6.88E-04	635	9.36E-04	702	2.49E-04	769	3.06E-05
435	7.93E-05	502	4.25E-04	569	6.96E-04	636	9.21E-04	703	2.42E-04	770	3.01E-05
436	8.74E-05	503	4.30E-04	570	7.03E-04	637	9.13E-04	704	2.34E-04	771	2.89E-05
437	9.68E-05	504	4.35E-04	571	7.09E-04	638	9.04E-04	705	2.28E-04	772	2.83E-05
438	1.07E-04	505	4.45E-04	572	7.16E-04	639	8.98E-04	706	2.22E-04	773	2.74E-05
439	1.17E-04	506	4.45E-04	573	7.23E-04	640	8.85E-04	707	2.15E-04	774	2.62E-05
440	1.30E-04	507	4.53E-04	574	7.29E-04	641	8.73E-04	708	2.10E-04	775	2.52E-05
441	1.43E-04	508	4.56E-04	575	7.36E-04	642	8.64E-04	709	2.04E-04	776	2.46E-05
442	1.56E-04	509	4.60E-04	576	7.42E-04	643	8.54E-04	710	1.98E-04	777	2.39E-05
443	1.72E-04	510	4.64E-04	577	7.48E-04	644	8.47E-04	711	1.92E-04	778	2.32E-05
444	1.91E-04	511	4.67E-04	578	7.57E-04	645	8.34E-04	712	1.87E-04	779	2.32E-05
445	2.11E-04	512	4.67E-04	579	7.62E-04	646	8.25E-04	713	1.82E-04	780	2.32E-05
446	2.37E-04	513	4.71E-04	580	7.72E-04	647	8.14E-04	714	1.76E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	COL6RM @3000K Black trim	Sample ID	250903014-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	0.052	5.8	0.935
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

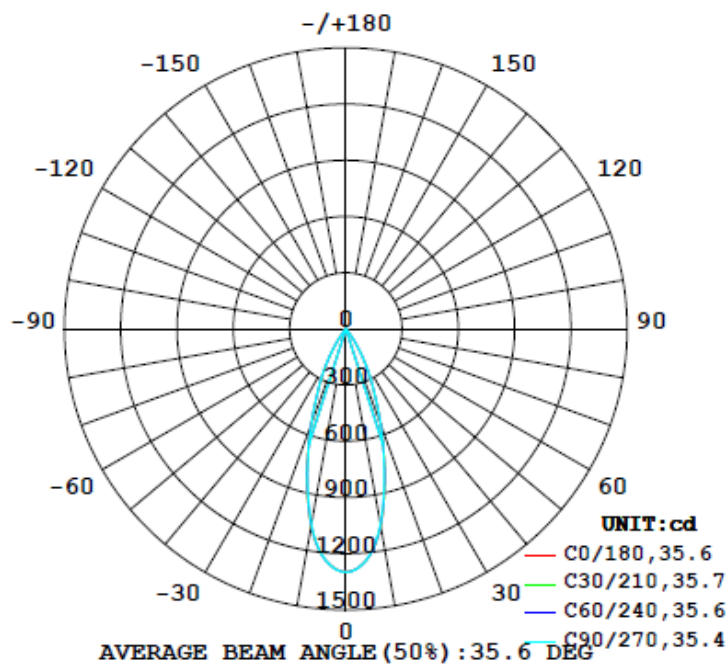
Test Result

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°)
554	64.8	64.9	35.7	35.5	95.5	100.0%

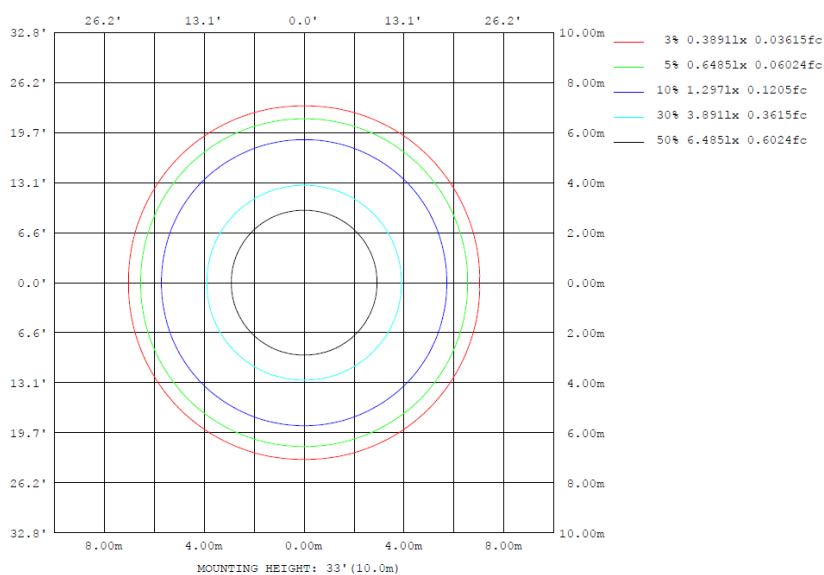
4.2 Goniophotometer Test

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	1069	1066	1058	1066	1069	1066	1058	1066	0- 10	112.9	112.9	20.4,20.4
20	539.3	542.6	538.2	542.6	539.3	542.6	538.2	542.6	10- 20	219.1	331.9	59.9,59.9
30	190.3	195.4	191.1	195.4	190.3	195.4	191.1	195.4	20- 30	156.8	488.7	88.2,88.2
40	11.44	11.77	12.41	11.77	11.44	11.77	12.41	11.77	30- 40	50.62	539.3	97.3,97.3
50	5.672	5.411	5.187	5.411	5.672	5.411	5.187	5.411	40- 50	5.540	544.9	98.3,98.3
60	4.444	4.151	3.794	4.151	4.444	4.151	3.794	4.151	50- 60	4.269	549.1	99.1,99.1
70	2.709	2.465	2.173	2.465	2.709	2.465	2.173	2.465	60- 70	3.413	552.5	99.7,99.7
80	0.0947	0.0765	0.0765	0.0765	0.0947	0.0765	0.0765	0.0765	70- 80	1.436	554.0	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0316	554.0	100,100
100	0	0	0	0	0	0	0	0	90-100	0	554.0	100,100
110	0	0	0	0	0	0	0	0	100-110	0	554.0	100,100
120	0	0	0	0	0	0	0	0	110-120	0	554.0	100,100
130	0	0	0	0	0	0	0	0	120-130	0	554.0	100,100
140	0	0	0	0	0	0	0	0	130-140	0	554.0	100,100
150	0	0	0	0	0	0	0	0	140-150	0	554.0	100,100
160	0	0	0	0	0	0	0	0	150-160	0	554.0	100,100
170	0	0	0	0	0	0	0	0	160-170	0	554.0	100,100
180	0	0	0	0	0	0	0	0	170-180	0	554.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

	Zonal (lm)		Total (lm)	Percent
0-10	112.87	0-10	112.87	20.37%
10-20	219.05	0-20	331.92	59.91%
20-30	156.76	0-30	488.68	88.21%
30-40	50.62	0-40	539.30	97.35%
40-50	5.54	0-50	544.84	98.35%
50-60	4.27	0-60	549.11	99.12%
60-70	3.41	0-70	552.52	99.73%
70-80	1.44	0-80	553.96	99.99%
80-90	0.03	0-90	553.99	100.00%
90-100	0.00	0-100	553.99	100.00%
100-110	0.00	0-110	553.99	100.00%
110-120	0.00	0-120	553.99	100.00%
120-130	0.00	0-130	553.99	100.00%
130-140	0.00	0-140	553.99	100.00%
140-150	0.00	0-150	553.99	100.00%
150-160	0.00	0-160	553.99	100.00%
160-170	0.00	0-170	553.99	100.00%
170-180	0.00	0-180	553.99	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	1297	1297	1297	1297	1297	1298	1298	1298	1297	1297	1297	1297	1297	1297	1297	1297	1297	1298	1298
5	1238	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1238	1240	1240	1240	1240	1240	1240
10	1069	1069	1068	1066	1064	1061	1058	1061	1064	1066	1068	1069	1069	1069	1068	1066	1064	1061	1058
15	803	804	803	802	799	796	792	796	799	802	803	804	803	804	803	802	799	796	792
20	539	542	543	543	542	540	538	540	542	543	543	542	539	542	543	543	542	540	538
25	334	336	339	341	341	342	341	342	341	341	339	336	334	336	339	341	341	342	341
30	190	192	195	195	193	193	191	193	193	195	195	192	190	192	195	195	193	193	191
35	73.3	75.1	76.7	78.2	78.1	77.2	75.8	77.2	78.1	78.2	76.7	75.1	73.3	75.1	76.7	78.2	78.1	77.2	75.8
40	11.4	11.4	11.6	11.8	12.1	12.3	12.4	12.3	12.1	11.8	11.6	11.4	11.4	11.4	11.6	11.8	12.1	12.3	12.4
45	6.69	6.65	6.62	6.58	6.57	6.56	6.51	6.56	6.57	6.58	6.62	6.65	6.69	6.65	6.62	6.58	6.57	6.56	6.51
50	5.67	5.59	5.48	5.41	5.34	5.28	5.19	5.28	5.34	5.41	5.48	5.59	5.67	5.59	5.48	5.41	5.34	5.28	5.19
55	5.12	5.02	4.89	4.77	4.68	4.60	4.48	4.60	4.68	4.77	4.89	5.02	5.12	5.02	4.89	4.77	4.68	4.60	4.48
60	4.44	4.38	4.29	4.15	4.04	3.93	3.79	3.93	4.04	4.15	4.29	4.38	4.44	4.38	4.29	4.15	4.04	3.93	3.79
65	3.85	3.80	3.73	3.60	3.46	3.35	3.20	3.35	3.46	3.60	3.73	3.80	3.85	3.80	3.73	3.60	3.46	3.35	3.20
70	2.71	2.65	2.59	2.46	2.37	2.29	2.17	2.29	2.37	2.46	2.59	2.65	2.71	2.65	2.59	2.46	2.37	2.29	2.17
75	1.77	1.70	1.58	1.46	1.33	1.20	1.13	1.20	1.33	1.46	1.58	1.70	1.77	1.70	1.58	1.46	1.33	1.20	1.13
80	0.09	0.09	0.08	0.08	0.07	0.08	0.08	0.08	0.07	0.08	0.08	0.09	0.09	0.09	0.08	0.08	0.07	0.08	0.08
85	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.02	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) γ (DEG)	285	300	315	330	345														
0	1298	1297	1297	1297	1297														
5	1240	1240	1240	1240	1240														
10	1061	1064	1066	1068	1069														
15	796	799	802	803	804														
20	540	542	543	543	542														
25	342	341	341	339	336														
30	193	193	195	195	192														
35	77.2	78.1	78.2	76.7	75.1														
40	12.3	12.1	11.8	11.6	11.4														
45	6.56	6.57	6.58	6.62	6.65														
50	5.28	5.34	5.41	5.48	5.59														
55	4.60	4.68	4.77	4.89	5.02														
60	3.93	4.04	4.15	4.29	4.38														
65	3.35	3.46	3.60	3.73	3.80														
70	2.29	2.37	2.46	2.59	2.65														
75	1.20	1.33	1.46	1.58	1.70														
80	0.08	0.07	0.08	0.08	0.09														
85	0.03	0.03	0.03	0.02	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

Model No.	COL6RM @3000K Black trim	Sample ID	250903014-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	0.052	5.8	0.935	17.50

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*****