

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

Issue Date: 2025-09-17

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		1571
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Standard	Premium	88.2
		95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Worst Case		17.8
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	11.05
Power Factor (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.983
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019	7 steps	3045±175	3011
		4 steps	3045±100	
Minimum CRI (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019 CIE13.3-1995	≥80		92.8
Minimum R9 (Integrating Sphere – Section 4.1)	ANSI/IES LM-79-2019 CIE13.3-1995	≥0		59
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		0.151
(Goniophotometer – Section 4.2)		Non-Worst Case		N/A
Power (Input Wattage – W)				
(Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Worst Case		17.8
(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	2025-09-04	COL18SM3 @3000K Black trim	-	250903021-S1
2	Goniophotometer Test	2025-09-04	COL18SM3 @3000K Black trim	-	250903021-S1
3	THD and PF Test	2025-09-04	COL18SM3 @3000K Black trim	-	250903021-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. COL18SM3 @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.	COL18SM3 @3000K Black trim	Sample ID	250903021-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

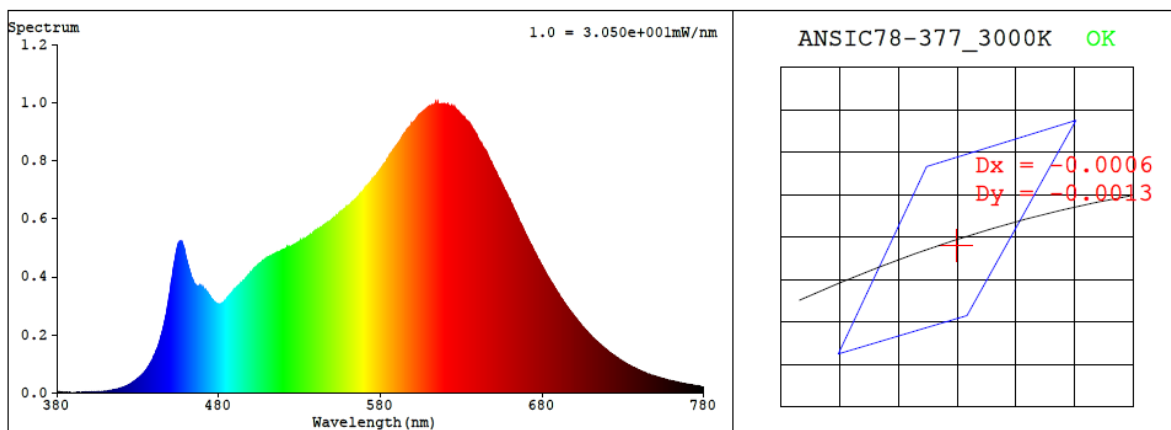
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.151	17.8	0.983

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3011	92.8	59	-0.0004	1.3	90	96	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4355$ $y = 0.4025$ $u' = 0.2503$ $v' = 0.5206$ ($duv = -4.29e-04$)

CCT= 3011K Prcp WL: Ld=582.9nm Purity=51.5%

Peak WL: Lp=615nm FWHM: =152.0nm Ratio:R=24.6% G=71.9% B=3.5%

Render Index: Ra = 92.8 AvgR = 91.1 TM30:Rf=91 Rg=97

EEI: 0.16293 A+

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

R8 =80 R9 =59 R10=100 R11=96 R12=84 R13=97 R14=98 R15=90

4.1 Integrating Sphere Test

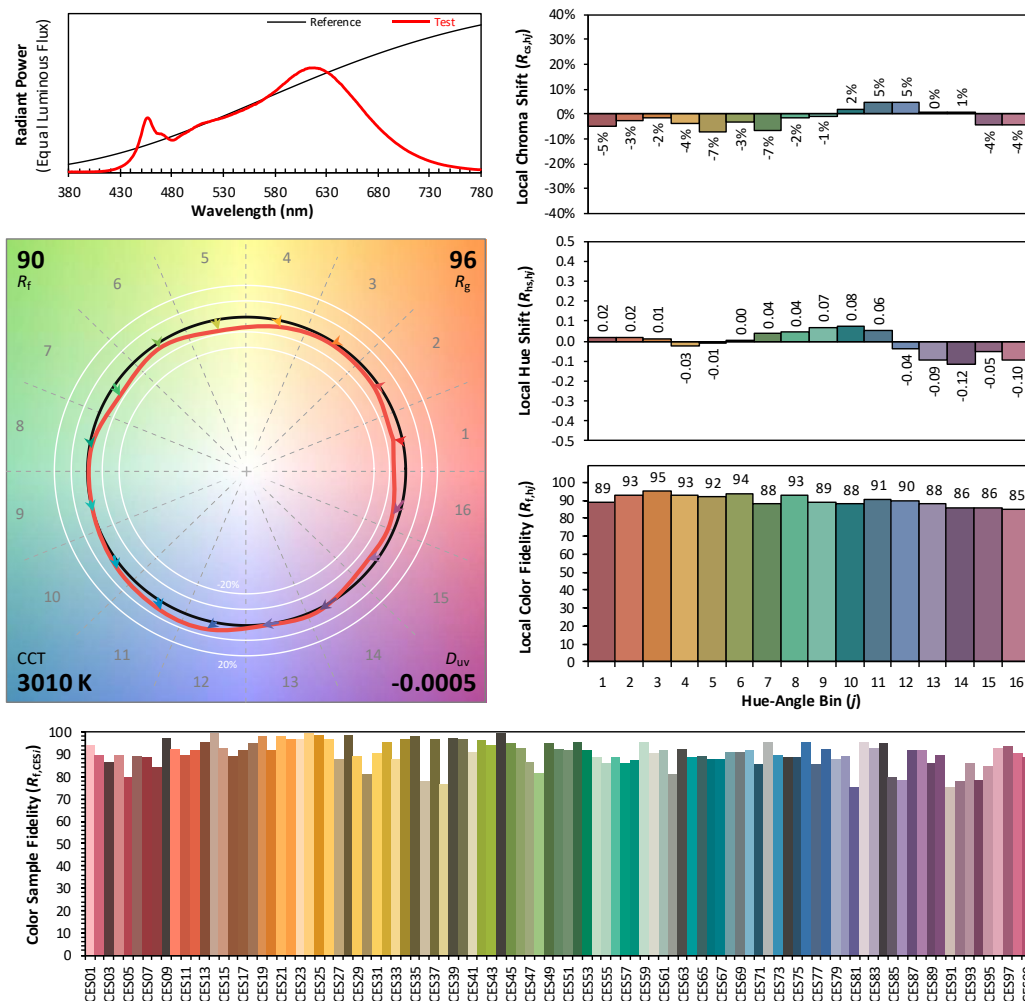
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/17

Model: COL18SM3 @3000K Black trim



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

x 0.4356
 y 0.4024
 u' 0.2504
 v' 0.5205

CIE 13.3-1995
(CRI)

R_a 93
 R_g 59

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	2.70E-06	447	2.57E-04	514	4.75E-04	581	7.76E-04	648	7.99E-04	715	1.71E-04
381	6.00E-07	448	2.86E-04	515	4.80E-04	582	7.84E-04	649	7.88E-04	716	1.67E-04
382	2.80E-06	449	3.21E-04	516	4.80E-04	583	7.92E-04	650	7.76E-04	717	1.62E-04
383	2.90E-06	450	3.51E-04	517	4.84E-04	584	8.02E-04	651	7.66E-04	718	1.56E-04
384	1.20E-06	451	3.91E-04	518	4.87E-04	585	8.10E-04	652	7.55E-04	719	1.52E-04
385	1.70E-06	452	4.31E-04	519	4.91E-04	586	8.20E-04	653	7.43E-04	720	1.47E-04
386	2.40E-06	453	4.61E-04	520	4.92E-04	587	8.27E-04	654	7.31E-04	721	1.43E-04
387	1.40E-06	454	4.92E-04	521	4.95E-04	588	8.37E-04	655	7.21E-04	722	1.38E-04
388	2.50E-06	455	5.11E-04	522	5.00E-04	589	8.43E-04	656	7.09E-04	723	1.35E-04
389	1.40E-06	456	5.18E-04	523	5.02E-04	590	8.50E-04	657	6.97E-04	724	1.30E-04
390	1.40E-06	457	5.17E-04	524	5.04E-04	591	8.60E-04	658	6.88E-04	725	1.27E-04
391	1.90E-06	458	5.06E-04	525	5.05E-04	592	8.67E-04	659	6.75E-04	726	1.22E-04
392	1.90E-06	459	4.90E-04	526	5.09E-04	593	8.76E-04	660	6.65E-04	727	1.19E-04
393	1.70E-06	460	4.63E-04	527	5.11E-04	594	8.86E-04	661	6.51E-04	728	1.14E-04
394	2.20E-06	461	4.39E-04	528	5.15E-04	595	8.94E-04	662	6.40E-04	729	1.11E-04
395	1.70E-06	462	4.20E-04	529	5.16E-04	596	9.01E-04	663	6.28E-04	730	1.07E-04
396	2.50E-06	463	3.99E-04	530	5.20E-04	597	9.10E-04	664	6.17E-04	731	1.04E-04
397	2.20E-06	464	3.87E-04	531	5.23E-04	598	9.16E-04	665	6.03E-04	732	1.01E-04
398	2.70E-06	465	3.72E-04	532	5.26E-04	599	9.25E-04	666	5.91E-04	733	9.75E-05
399	1.90E-06	466	3.69E-04	533	5.31E-04	600	9.29E-04	667	5.80E-04	734	9.51E-05
400	2.40E-06	467	3.68E-04	534	5.33E-04	601	9.35E-04	668	5.68E-04	735	9.15E-05
401	2.70E-06	468	3.65E-04	535	5.38E-04	602	9.42E-04	669	5.54E-04	736	8.89E-05
402	2.70E-06	469	3.66E-04	536	5.41E-04	603	9.50E-04	670	5.43E-04	737	8.61E-05
403	3.20E-06	470	3.64E-04	537	5.45E-04	604	9.57E-04	671	5.33E-04	738	8.32E-05
404	2.60E-06	471	3.56E-04	538	5.48E-04	605	9.62E-04	672	5.21E-04	739	8.01E-05
405	3.60E-06	472	3.54E-04	539	5.53E-04	606	9.67E-04	673	5.11E-04	740	7.80E-05
406	4.30E-06	473	3.46E-04	540	5.57E-04	607	9.72E-04	674	5.00E-04	741	7.55E-05
407	3.90E-06	474	3.37E-04	541	5.61E-04	608	9.73E-04	675	4.88E-04	742	7.29E-05
408	4.80E-06	475	3.29E-04	542	5.63E-04	609	9.79E-04	676	4.79E-04	743	7.06E-05
409	5.80E-06	476	3.22E-04	543	5.69E-04	610	9.86E-04	677	4.67E-04	744	6.83E-05
410	5.60E-06	477	3.15E-04	544	5.72E-04	611	9.86E-04	678	4.57E-04	745	6.59E-05
411	6.00E-06	478	3.11E-04	545	5.78E-04	612	9.91E-04	679	4.46E-04	746	6.47E-05
412	6.90E-06	479	3.06E-04	546	5.81E-04	613	9.92E-04	680	4.37E-04	747	6.24E-05
413	8.30E-06	480	3.05E-04	547	5.85E-04	614	9.96E-04	681	4.25E-04	748	6.01E-05
414	9.00E-06	481	3.05E-04	548	5.87E-04	615	9.94E-04	682	4.16E-04	749	5.86E-05
415	9.80E-06	482	3.06E-04	549	5.91E-04	616	9.95E-04	683	4.06E-04	750	5.67E-05
416	1.14E-05	483	3.11E-04	550	5.96E-04	617	9.95E-04	684	3.96E-04	751	5.52E-05
417	1.26E-05	484	3.16E-04	551	6.03E-04	618	9.95E-04	685	3.87E-04	752	5.36E-05
418	1.40E-05	485	3.24E-04	552	6.05E-04	619	9.95E-04	686	3.77E-04	753	5.20E-05
419	1.60E-05	486	3.31E-04	553	6.10E-04	620	9.93E-04	687	3.68E-04	754	5.03E-05
420	1.75E-05	487	3.37E-04	554	6.14E-04	621	9.92E-04	688	3.60E-04	755	4.89E-05
421	1.97E-05	488	3.45E-04	555	6.20E-04	622	9.92E-04	689	3.51E-04	756	4.71E-05
422	2.17E-05	489	3.51E-04	556	6.26E-04	623	9.87E-04	690	3.41E-04	757	4.59E-05
423	2.40E-05	490	3.58E-04	557	6.30E-04	624	9.89E-04	691	3.33E-04	758	4.38E-05
424	2.62E-05	491	3.63E-04	558	6.34E-04	625	9.82E-04	692	3.25E-04	759	4.31E-05
425	2.91E-05	492	3.68E-04	559	6.41E-04	626	9.79E-04	693	3.17E-04	760	4.11E-05
426	3.27E-05	493	3.72E-04	560	6.45E-04	627	9.75E-04	694	3.09E-04	761	4.02E-05
427	3.68E-05	494	3.78E-04	561	6.46E-04	628	9.70E-04	695	3.00E-04	762	3.90E-05
428	4.06E-05	495	3.85E-04	562	6.50E-04	629	9.64E-04	696	2.92E-04	763	3.76E-05
429	4.53E-05	496	3.88E-04	563	6.58E-04	630	9.57E-04	697	2.84E-04	764	3.69E-05
430	4.99E-05	497	3.97E-04	564	6.64E-04	631	9.52E-04	698	2.76E-04	765	3.49E-05
431	5.35E-05	498	4.04E-04	565	6.68E-04	632	9.48E-04	699	2.70E-04	766	3.44E-05
432	5.90E-05	499	4.08E-04	566	6.74E-04	633	9.41E-04	700	2.63E-04	767	3.27E-05
433	6.49E-05	500	4.13E-04	567	6.78E-04	634	9.33E-04	701	2.56E-04	768	3.20E-05
434	7.02E-05	501	4.21E-04	568	6.86E-04	635	9.28E-04	702	2.48E-04	769	3.09E-05
435	7.78E-05	502	4.29E-04	569	6.92E-04	636	9.18E-04	703	2.42E-04	770	3.00E-05
436	8.53E-05	503	4.32E-04	570	7.00E-04	637	9.09E-04	704	2.35E-04	771	2.92E-05
437	9.37E-05	504	4.39E-04	571	7.06E-04	638	9.02E-04	705	2.28E-04	772	2.80E-05
438	1.04E-04	505	4.44E-04	572	7.14E-04	639	8.92E-04	706	2.22E-04	773	2.70E-05
439	1.13E-04	506	4.48E-04	573	7.19E-04	640	8.80E-04	707	2.15E-04	774	2.61E-05
440	1.27E-04	507	4.53E-04	574	7.27E-04	641	8.70E-04	708	2.10E-04	775	2.52E-05
441	1.39E-04	508	4.58E-04	575	7.34E-04	642	8.61E-04	709	2.03E-04	776	2.49E-05
442	1.52E-04	509	4.63E-04	576	7.40E-04	643	8.51E-04	710	1.97E-04	777	2.38E-05
443	1.68E-04	510	4.66E-04	577	7.46E-04	644	8.43E-04	711	1.91E-04	778	2.33E-05
444	1.88E-04	511	4.68E-04	578	7.55E-04	645	8.35E-04	712	1.87E-04	779	2.32E-05
445	2.06E-04	512	4.70E-04	579	7.61E-04	646	8.22E-04	713	1.81E-04	780	2.33E-05
446	2.31E-04	513	4.74E-04	580	7.69E-04	647	8.10E-04	714	1.76E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	COL18SM3 @3000K Black trim	Sample ID	250903021-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	0.151	17.8	0.983
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

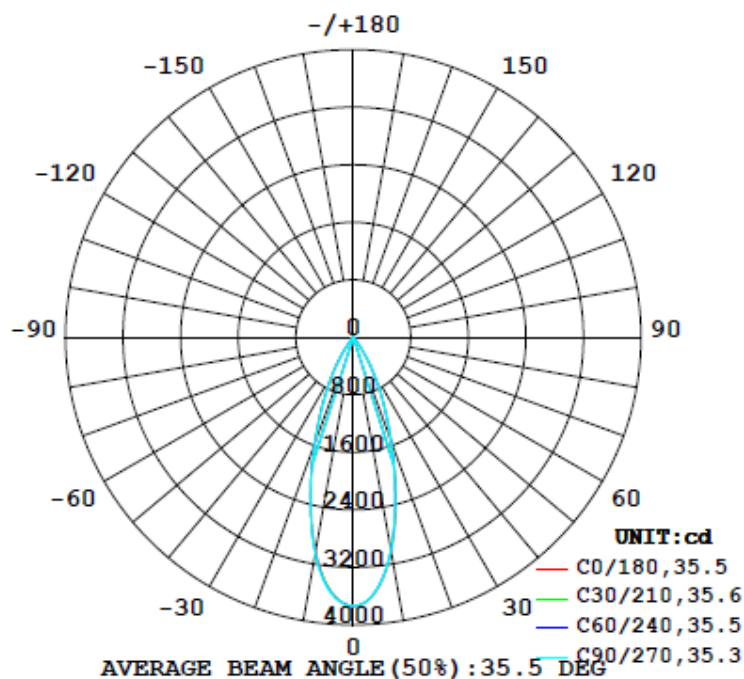
Test Result

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°)
1571	65.0	64.9	35.5	35.4	88.2	100.0%

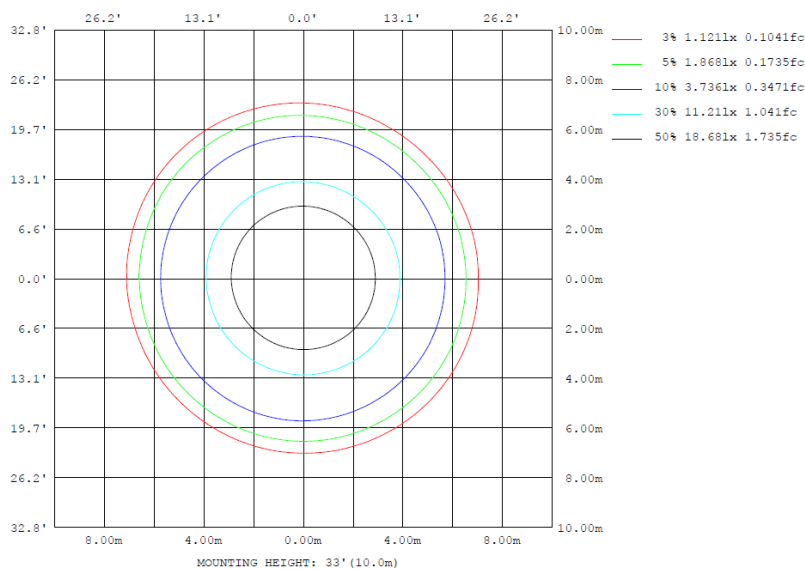
4.2 Goniophotometer Test

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	Φ lum, lamp
10	3026	3012	2994	3001	3022	3047	3059	3046	0- 10	322.6	322.6	20.5, 20.5
20	1533	1538	1522	1525	1562	1582	1559	1533	10- 20	623.7	946.3	60.3, 60.3
30	538.3	544.3	552.3	558.0	561.3	561.4	554.3	536.4	20- 30	449.3	1396	88.9, 88.9
40	41.01	43.11	35.27	30.50	47.23	59.19	38.91	31.74	30- 40	145.8	1541	98.1, 98.1
50	11.04	11.03	10.84	10.72	10.83	11.02	10.98	11.02	40- 50	13.66	1555	99, 99
60	7.623	7.457	7.564	7.567	7.688	7.910	8.038	7.956	50- 60	8.304	1563	99.5, 99.5
70	3.408	3.514	3.654	3.571	3.538	3.501	3.429	3.398	60- 70	5.841	1569	99.9, 99.9
80	0.0483	0.0410	0.0300	0.0318	0.0486	0.0560	0.0388	0.0356	70- 80	1.468	1571	100, 100
90	0	0	0	0	0	0	0	0	80- 90	0.0219	1571	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	1571	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	1571	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	1571	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	1571	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	1571	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	1571	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	1571	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	1571	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	1571	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	322.62	0-10	322.62	20.54%
10-20	623.72	0-20	946.34	60.25%
20-30	449.27	0-30	1395.61	88.85%
30-40	145.79	0-40	1541.40	98.14%
40-50	13.66	0-50	1555.06	99.00%
50-60	8.30	0-60	1563.36	99.53%
60-70	5.84	0-70	1569.20	99.91%
70-80	1.47	0-80	1570.67	100.00%
80-90	0.02	0-90	1570.69	100.00%
90-100	0.00	0-100	1570.69	100.00%
100-110	0.00	0-110	1570.69	100.00%
110-120	0.00	0-120	1570.69	100.00%
120-130	0.00	0-130	1570.69	100.00%
130-140	0.00	0-140	1570.69	100.00%
140-150	0.00	0-150	1570.69	100.00%
150-160	0.00	0-160	1570.69	100.00%
160-170	0.00	0-170	1570.69	100.00%
170-180	0.00	0-180	1570.69	100.00%

4.2 Goniophotometer Test

Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) y	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	3736	3736	3737	3732	3740	3738	3736	3738	3739	3737	3740	3738	3736	3736	3737	3732	3740	3738	3736
5	3558	3552	3548	3546	3546	3549	3552	3556	3553	3556	3556	3556	3552	3553	3555	3562	3564	3571	3574
10	3026	3024	3018	3012	3004	2995	2994	2993	2993	3001	3007	3014	3022	3031	3040	3047	3052	3055	3059
15	2281	2277	2272	2265	2254	2245	2239	2241	2240	2249	2258	2273	2282	2296	2307	2312	2314	2311	2304
20	1533	1540	1541	1538	1533	1528	1522	1522	1520	1525	1533	1539	1562	1574	1580	1582	1577	1569	1559
25	970	973	975	976	974	972	975	976	974	978	983	996	991	995	999	998	991	983	976
30	538	541	544	544	543	546	552	553	555	558	558	558	561	561	563	561	560	560	554
35	209	216	218	217	213	210	208	205	204	205	210	216	231	235	241	241	237	230	220
40	41.0	43.0	44.0	43.1	41.5	38.4	35.3	33.7	31.5	30.5	32.8	38.9	47.2	53.6	59.0	59.2	54.5	47.2	38.9
45	14.8	14.8	14.9	15.0	14.8	14.6	14.3	14.2	14.0	14.0	14.2	14.4	14.7	15.3	15.7	15.6	15.0	14.6	14.5
50	11.0	11.0	11.0	11.0	11.0	10.9	10.8	10.8	10.7	10.7	10.8	10.9	10.8	11.0	11.1	11.0	10.9	10.9	11.0
55	9.37	9.28	9.25	9.20	9.18	9.14	9.12	9.09	9.04	9.07	9.16	9.22	9.25	9.29	9.37	9.41	9.48	9.51	9.64
60	7.62	7.54	7.47	7.46	7.46	7.55	7.56	7.59	7.57	7.57	7.61	7.64	7.69	7.76	7.86	7.91	7.93	7.97	8.04
65	6.02	5.96	5.93	5.93	5.96	6.17	6.25	6.34	6.35	6.24	6.20	6.16	6.14	6.12	6.05	6.06	6.12	6.22	6.35
70	3.41	3.44	3.49	3.51	3.53	3.63	3.65	3.69	3.64	3.57	3.58	3.54	3.54	3.59	3.55	3.50	3.47	3.45	3.43
75	1.26	1.29	1.32	1.32	1.28	1.21	1.13	1.07	1.04	1.06	1.10	1.12	1.16	1.16	1.18	1.17	1.19	1.21	1.25
80	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.05	0.06	0.06	0.05	0.05	0.04
85	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
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) y	285	300	315	330	345														
0	3738	3739	3737	3740	3738														
5	3576	3576	3571	3568	3563														
10	3059	3058	3046	3039	3032														
15	2294	2287	2281	2281	2280														
20	1549	1542	1533	1532	1538														
25	968	963	963	964	968														
30	547	540	536	537	540														
35	208	200	199	205	211														
40	33.0	30.8	31.7	34.9	38.2														
45	14.4	14.3	14.3	14.4	14.7														
50	11.0	11.0	11.0	11.0	11.1														
55	9.66	9.68	9.62	9.60	9.53														
60	8.02	7.98	7.96	7.87	7.78														
65	6.39	6.35	6.33	6.20	6.17														
70	3.38	3.37	3.40	3.33	3.41														
75	1.26	1.23	1.18	1.15	1.22														
80	0.03	0.03	0.04	0.04	0.05														
85	0.02	0.02	0.02	0.02	0.02														
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.	COL18SM3 @3000K Black trim	Sample ID	250903021-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	0.151	17.8	0.983	11.05

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*****