

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: 2025-09-17

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		1667
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		17.8
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	11.02
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	5029±283	4969
			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		71
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		0.151
(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 @5000K Black trim	-	250903021-S1
2	Goniophotometer Test	2025-09-04	COL18SM3 @5000K Black trim	-	250903021-S1
3	THD and PF Test	2025-09-04	COL18SM3 @5000K Black trim	-	250903021-S1

Remark (If any):

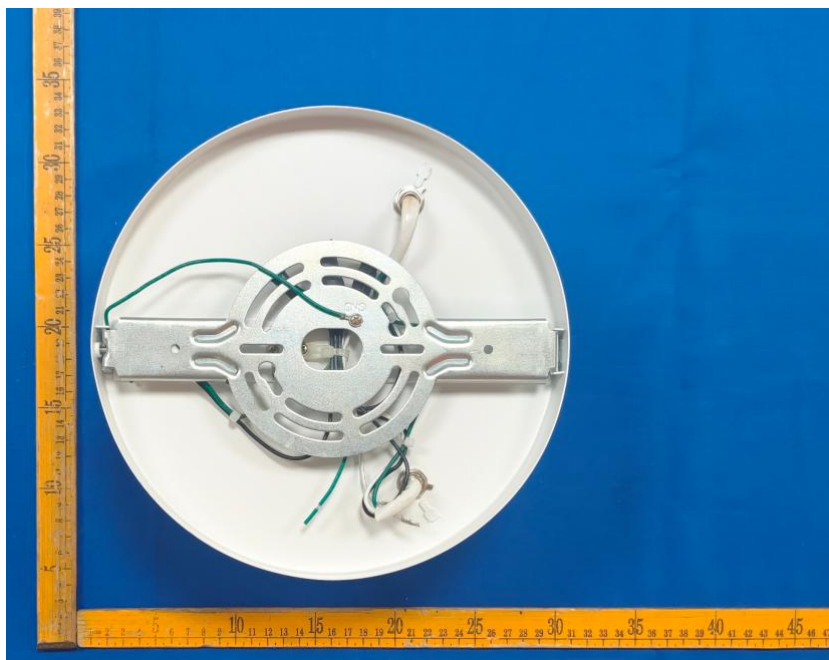
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3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. COL18SM3 @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

Model No.	COL18SM3 @5000K Black trim	Sample ID	250903021-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

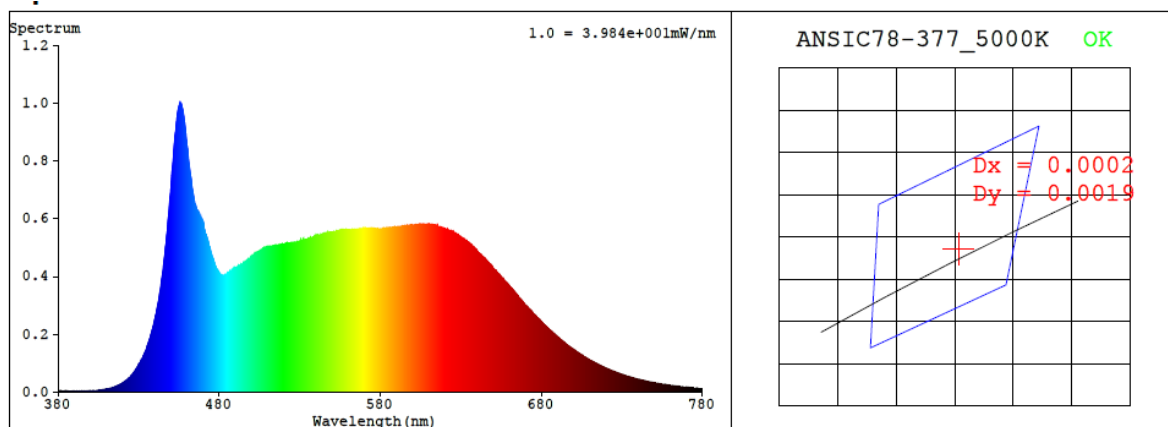
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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
4969	93.0	71	0.0009	1.5	90	97	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3462$ $y = 0.3542$ / $u' = 0.2112$ $v' = 0.4861$ ($duv=8.68e-04$)

CCT= 4969K Prcp WL: $L_d=572.3nm$ Purity=10.2%

Peak WL: $L_p=456nm$ FWHM: $=27.5nm$ Ratio:R=17.6% G=76.4% B=6.0%

Render Index: $R_a = 93.0$ AvgR = 90.8 TM30:Rf=91 Rg=98

EEL: 0.15426 A+

R1 =95 R2 =99 R3 =96 R4 =89 R5 =92 R6 =95 R7 =90

R8 =86 R9 =71 R10=99 R11=91 R12=69 R13=98 R14=99 R15=92

4.1 Integrating Sphere Test

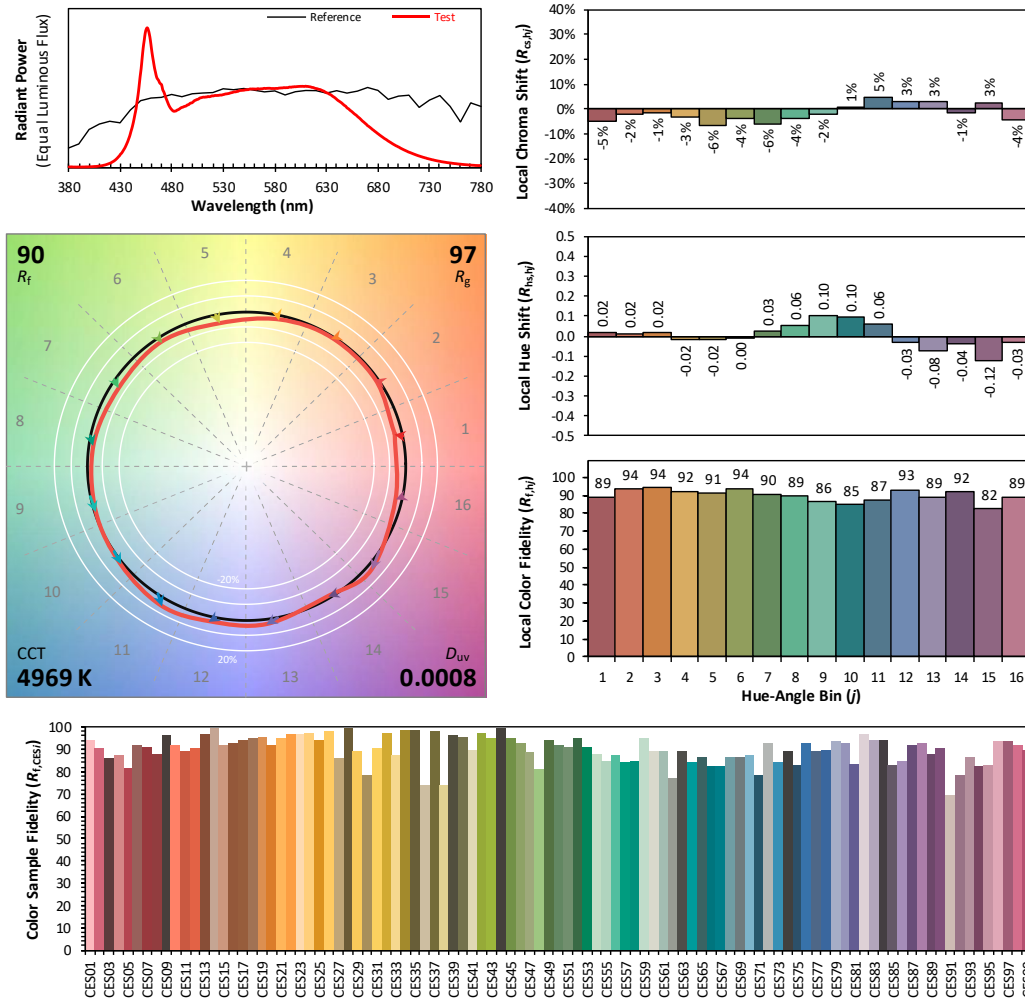
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/17

Model: COL18SM3 @5000K Black trim



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

x 0.3462
 y 0.3541
 u' 0.2112
 v' 0.4860

CIE 13.3-1995
(CRI)

R_a 93
 R_g 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	4.10E-06	447	5.18E-04	514	5.04E-04	581	5.66E-04	648	4.43E-04	715	9.63E-05
381	3.70E-06	448	5.79E-04	515	5.08E-04	582	5.66E-04	649	4.38E-04	716	9.36E-05
382	3.90E-06	449	6.48E-04	516	5.06E-04	583	5.66E-04	650	4.29E-04	717	9.06E-05
383	3.60E-06	450	7.07E-04	517	5.07E-04	584	5.68E-04	651	4.23E-04	718	8.80E-05
384	2.70E-06	451	7.82E-04	518	5.09E-04	585	5.68E-04	652	4.18E-04	719	8.52E-05
385	2.90E-06	452	8.55E-04	519	5.12E-04	586	5.69E-04	653	4.11E-04	720	8.27E-05
386	2.80E-06	453	9.09E-04	520	5.12E-04	587	5.69E-04	654	4.05E-04	721	8.05E-05
387	2.70E-06	454	9.62E-04	521	5.13E-04	588	5.70E-04	655	4.00E-04	722	7.79E-05
388	2.70E-06	455	9.90E-04	522	5.15E-04	589	5.72E-04	656	3.93E-04	723	7.58E-05
389	3.20E-06	456	1.00E-03	523	5.15E-04	590	5.70E-04	657	3.86E-04	724	7.32E-05
390	3.10E-06	457	9.84E-04	524	5.15E-04	591	5.71E-04	658	3.80E-04	725	7.14E-05
391	2.90E-06	458	9.55E-04	525	5.16E-04	592	5.71E-04	659	3.75E-04	726	6.88E-05
392	2.90E-06	459	9.11E-04	526	5.17E-04	593	5.72E-04	660	3.69E-04	727	6.74E-05
393	3.10E-06	460	8.54E-04	527	5.18E-04	594	5.75E-04	661	3.61E-04	728	6.44E-05
394	3.00E-06	461	8.02E-04	528	5.18E-04	595	5.75E-04	662	3.56E-04	729	6.28E-05
395	3.30E-06	462	7.58E-04	529	5.20E-04	596	5.74E-04	663	3.49E-04	730	6.08E-05
396	3.60E-06	463	7.14E-04	530	5.22E-04	597	5.77E-04	664	3.42E-04	731	5.90E-05
397	3.90E-06	464	6.80E-04	531	5.23E-04	598	5.76E-04	665	3.34E-04	732	5.71E-05
398	3.60E-06	465	6.48E-04	532	5.26E-04	599	5.78E-04	666	3.28E-04	733	5.50E-05
399	4.30E-06	466	6.33E-04	533	5.27E-04	600	5.77E-04	667	3.22E-04	734	5.39E-05
400	4.70E-06	467	6.23E-04	534	5.28E-04	601	5.78E-04	668	3.15E-04	735	5.18E-05
401	5.00E-06	468	6.06E-04	535	5.29E-04	602	5.79E-04	669	3.09E-04	736	5.02E-05
402	4.90E-06	469	5.98E-04	536	5.31E-04	603	5.80E-04	670	3.01E-04	737	4.85E-05
403	5.50E-06	470	5.91E-04	537	5.34E-04	604	5.80E-04	671	2.96E-04	738	4.70E-05
404	6.00E-06	471	5.56E-04	538	5.35E-04	605	5.81E-04	672	2.90E-04	739	4.55E-05
405	6.60E-06	472	5.42E-04	539	5.37E-04	606	5.80E-04	673	2.85E-04	740	4.42E-05
406	6.70E-06	473	5.22E-04	540	5.39E-04	607	5.81E-04	674	2.78E-04	741	4.31E-05
407	7.50E-06	474	5.00E-04	541	5.41E-04	608	5.80E-04	675	2.72E-04	742	4.11E-05
408	8.50E-06	475	4.82E-04	542	5.41E-04	609	5.80E-04	676	2.67E-04	743	4.01E-05
409	9.50E-06	476	4.63E-04	543	5.44E-04	610	5.82E-04	677	2.60E-04	744	3.89E-05
410	1.04E-05	477	4.45E-04	544	5.44E-04	611	5.80E-04	678	2.55E-04	745	3.76E-05
411	1.15E-05	478	4.31E-04	545	5.48E-04	612	5.80E-04	679	2.49E-04	746	3.66E-05
412	1.25E-05	479	4.20E-04	546	5.50E-04	613	5.79E-04	680	2.43E-04	747	3.53E-05
413	1.42E-05	480	4.12E-04	547	5.51E-04	614	5.78E-04	681	2.38E-04	748	3.40E-05
414	1.61E-05	481	4.05E-04	548	5.52E-04	615	5.76E-04	682	2.32E-04	749	3.33E-05
415	1.76E-05	482	4.02E-04	549	5.53E-04	616	5.73E-04	683	2.27E-04	750	3.23E-05
416	1.99E-05	483	4.03E-04	550	5.53E-04	617	5.73E-04	684	2.21E-04	751	3.14E-05
417	2.25E-05	484	4.05E-04	551	5.55E-04	618	5.70E-04	685	2.16E-04	752	3.05E-05
418	2.52E-05	485	4.10E-04	552	5.55E-04	619	5.67E-04	686	2.11E-04	753	2.92E-05
419	2.79E-05	486	4.13E-04	553	5.57E-04	620	5.65E-04	687	2.06E-04	754	2.85E-05
420	3.10E-05	487	4.17E-04	554	5.57E-04	621	5.64E-04	688	2.01E-04	755	2.73E-05
421	3.41E-05	488	4.23E-04	555	5.59E-04	622	5.62E-04	689	1.96E-04	756	2.69E-05
422	3.91E-05	489	4.28E-04	556	5.62E-04	623	5.59E-04	690	1.91E-04	757	2.59E-05
423	4.31E-05	490	4.30E-04	557	5.61E-04	624	5.58E-04	691	1.86E-04	758	2.49E-05
424	4.81E-05	491	4.33E-04	558	5.62E-04	625	5.55E-04	692	1.82E-04	759	2.41E-05
425	5.38E-05	492	4.37E-04	559	5.62E-04	626	5.51E-04	693	1.77E-04	760	2.35E-05
426	6.06E-05	493	4.38E-04	560	5.61E-04	627	5.48E-04	694	1.72E-04	761	2.29E-05
427	6.79E-05	494	4.41E-04	561	5.61E-04	628	5.45E-04	695	1.68E-04	762	2.19E-05
428	7.64E-05	495	4.48E-04	562	5.60E-04	629	5.40E-04	696	1.63E-04	763	2.13E-05
429	8.41E-05	496	4.48E-04	563	5.63E-04	630	5.36E-04	697	1.59E-04	764	2.05E-05
430	9.51E-05	497	4.55E-04	564	5.64E-04	631	5.33E-04	698	1.55E-04	765	2.00E-05
431	1.02E-04	498	4.60E-04	565	5.61E-04	632	5.30E-04	699	1.52E-04	766	1.91E-05
432	1.13E-04	499	4.62E-04	566	5.63E-04	633	5.25E-04	700	1.47E-04	767	1.89E-05
433	1.26E-04	500	4.65E-04	567	5.63E-04	634	5.22E-04	701	1.44E-04	768	1.81E-05
434	1.37E-04	501	4.72E-04	568	5.63E-04	635	5.17E-04	702	1.39E-04	769	1.74E-05
435	1.52E-04	502	4.79E-04	569	5.65E-04	636	5.11E-04	703	1.36E-04	770	1.70E-05
436	1.69E-04	503	4.81E-04	570	5.66E-04	637	5.06E-04	704	1.32E-04	771	1.64E-05
437	1.86E-04	504	4.86E-04	571	5.65E-04	638	5.02E-04	705	1.28E-04	772	1.58E-05
438	2.07E-04	505	4.87E-04	572	5.66E-04	639	4.96E-04	706	1.25E-04	773	1.54E-05
439	2.27E-04	506	4.91E-04	573	5.66E-04	640	4.89E-04	707	1.21E-04	774	1.50E-05
440	2.54E-04	507	4.96E-04	574	5.67E-04	641	4.83E-04	708	1.18E-04	775	1.41E-05
441	2.79E-04	508	4.99E-04	575	5.67E-04	642	4.77E-04	709	1.14E-04	776	1.38E-05
442	3.08E-04	509	5.00E-04	576	5.66E-04	643	4.72E-04	710	1.11E-04	777	1.36E-05
443	3.42E-04	510	5.03E-04	577	5.65E-04	644	4.67E-04	711	1.08E-04	778	1.32E-05
444	3.80E-04	511	5.03E-04	578	5.65E-04	645	4.62E-04	712	1.05E-04	779	1.33E-05
445	4.17E-04	512	5.03E-04	579	5.65E-04	646	4.55E-04	713	1.02E-04	780	1.33E-05
446	4.69E-04	513	5.05E-04	580	5.65E-04	647	4.49E-04	714	9.93E-05	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	COL18SM3 @5000K 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

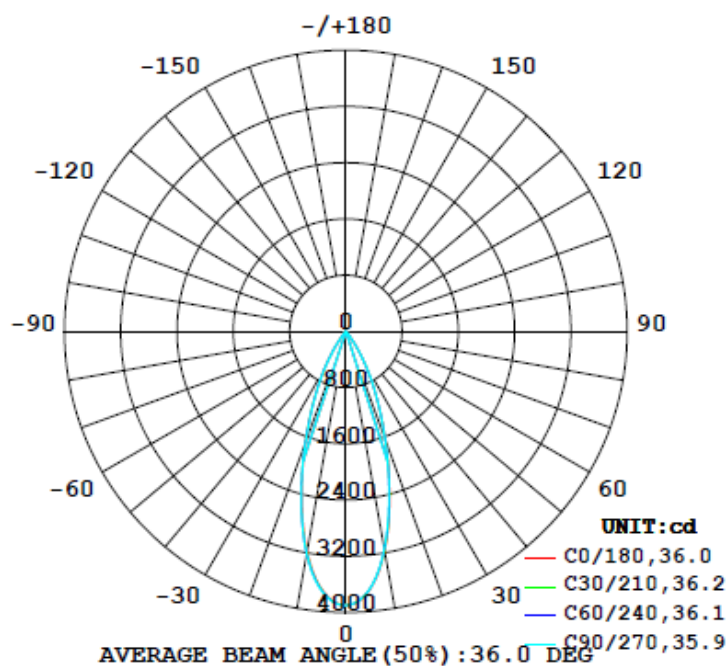
Test Result

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°)
1667	65.2	65.1	36.0	35.9	93.6	100.0%

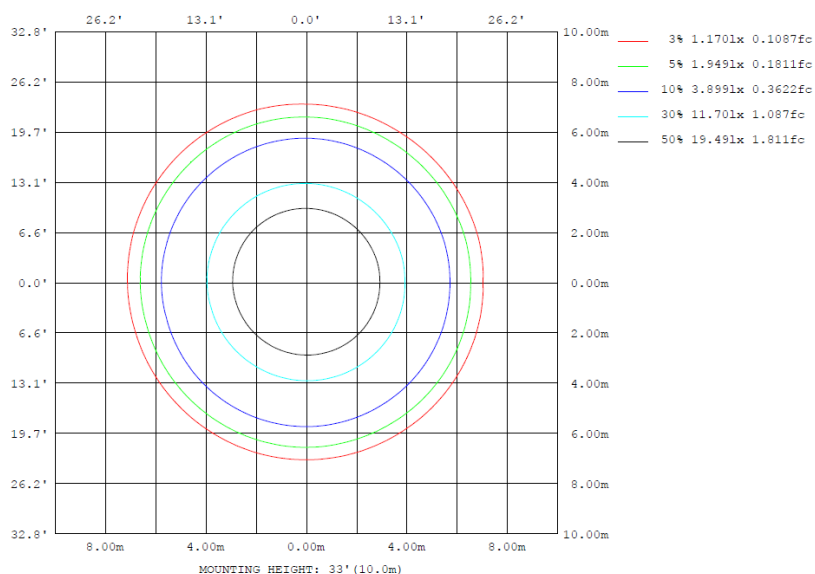
4.2 Goniophotometer Test

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	Φ lum, lamp
10	3176	3159	3142	3143	3182	3210	3219	3204	0- 10	337.6	337.6	20.3,20.3
20	1637	1640	1619	1621	1675	1701	1675	1647	10- 20	661.0	998.6	59.9,59.9
30	568.9	576.7	581.5	588.0	603.1	605.4	592.3	570.3	20- 30	480.4	1479	88.7,88.7
40	42.47	43.53	38.83	33.79	50.54	61.40	45.04	37.47	30- 40	156.3	1635	98.1,98.1
50	11.85	11.80	11.64	11.46	11.66	11.85	11.86	11.90	40- 50	14.60	1650	99.99
60	8.173	8.057	8.003	7.976	8.253	8.553	8.564	8.417	50- 60	8.910	1659	99.5,99.5
70	3.659	3.747	3.907	3.843	3.832	3.788	3.721	3.682	60- 70	6.237	1665	99.9,99.9
80	0.0487	0.0417	0.0304	0.0324	0.0527	0.0609	0.0425	0.0409	70- 80	1.591	1667	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0236	1667	100,100
100	0	0	0	0	0	0	0	0	90-100	0	1667	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1667	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1667	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1667	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1667	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1667	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1667	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1667	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1667	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	337.61	0-10	337.61	20.26%
10-20	660.96	0-20	998.57	59.92%
20-30	480.37	0-30	1478.94	88.74%
30-40	156.29	0-40	1635.23	98.12%
40-50	14.60	0-50	1649.83	98.99%
50-60	8.91	0-60	1658.74	99.53%
60-70	6.24	0-70	1664.98	99.90%
70-80	1.59	0-80	1666.57	100.00%
80-90	0.02	0-90	1666.59	100.00%
90-100	0.00	0-100	1666.59	100.00%
100-110	0.00	0-110	1666.59	100.00%
110-120	0.00	0-120	1666.59	100.00%
120-130	0.00	0-130	1666.59	100.00%
130-140	0.00	0-140	1666.59	100.00%
140-150	0.00	0-150	1666.59	100.00%
150-160	0.00	0-160	1666.59	100.00%
160-170	0.00	0-170	1666.59	100.00%
170-180	0.00	0-180	1666.59	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	3899	3898	3898	3901	3899	3900	3900	3899	3900	3900	3901	3900	3899	3898	3898	3901	3899	3900	3900
5	3716	3710	3705	3701	3706	3704	3707	3707	3710	3711	3710	3711	3712	3715	3722	3729	3732	3736	3739
10	3176	3172	3170	3159	3152	3146	3142	3139	3137	3143	3152	3162	3182	3191	3202	3210	3216	3218	3219
15	2410	2406	2403	2395	2387	2373	2366	2362	2366	2372	2383	2401	2420	2438	2452	2462	2462	2461	2453
20	1637	1641	1644	1640	1634	1627	1619	1615	1617	1621	1633	1643	1675	1687	1698	1701	1695	1685	1675
25	1028	1031	1032	1031	1029	1029	1031	1032	1036	1039	1042	1046	1066	1072	1076	1077	1069	1061	1048
30	569	572	577	577	575	578	582	582	585	588	588	590	603	605	607	605	602	598	592
35	220	222	223	222	221	223	224	226	226	228	231	233	245	252	258	259	257	252	241
40	42.5	43.4	44.3	43.5	41.9	40.0	38.8	38.5	36.2	33.8	36.7	42.1	50.5	56.1	61.0	61.4	57.9	52.3	45.0
45	15.8	15.9	15.9	16.0	15.8	15.6	15.4	15.2	15.1	15.1	15.3	15.5	15.9	16.5	16.9	16.8	16.3	15.8	15.7
50	11.8	11.8	11.8	11.8	11.8	11.7	11.6	11.6	11.5	11.5	11.5	11.6	11.7	11.8	11.9	11.8	11.8	11.8	11.9
55	10.1	9.98	9.94	9.88	9.84	9.81	9.78	9.74	9.68	9.70	9.80	9.87	9.94	10.0	10.1	10.1	10.2	10.2	10.3
60	8.17	8.12	8.06	8.06	8.01	8.06	8.00	8.00	7.98	7.98	8.04	8.13	8.25	8.35	8.48	8.55	8.53	8.55	8.56
65	6.44	6.40	6.38	6.38	6.39	6.56	6.59	6.63	6.61	6.54	6.53	6.54	6.59	6.61	6.56	6.58	6.62	6.68	6.77
70	3.66	3.68	3.73	3.75	3.78	3.89	3.91	3.94	3.91	3.84	3.87	3.82	3.83	3.87	3.83	3.79	3.77	3.75	3.72
75	1.34	1.35	1.39	1.39	1.34	1.28	1.19	1.13	1.11	1.13	1.19	1.20	1.28	1.28	1.30	1.30	1.32	1.36	1.41
80	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.06	0.06	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	3899	3900	3900	3901	3900														
5	3735	3732	3731	3728	3725														
10	3217	3211	3204	3192	3187														
15	2441	2431	2425	2421	2419														
20	1665	1654	1647	1645	1650														
25	1042	1036	1034	1035	1039														
30	584	575	570	571	575														
35	234	226	225	227	230														
40	39.1	36.3	37.5	40.2	42.5														
45	15.6	15.5	15.5	15.6	15.9														
50	11.9	11.9	11.9	11.9	11.9														
55	10.4	10.4	10.3	10.3	10.2														
60	8.50	8.45	8.42	8.35	8.30														
65	6.77	6.73	6.72	6.62	6.61														
70	3.68	3.66	3.68	3.61	3.70														
75	1.43	1.41	1.35	1.29	1.35														
80	0.04	0.04	0.04	0.04	0.06														
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 @5000K 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	11.02

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*******