

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

Surface Mount Luminaires					
Requirement Category		Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	250		561
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	95.1
			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	5029±283	4999
			4 steps	5029±220	
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		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		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 @5000K Black trim	-	250903015-S1
2	Goniophotometer Test	2025-09-15	COL6SM @5000K Black trim	-	250903015-S1
3	THD and PF Test	2025-09-15	COL6SM @5000K Black trim	-	250903015-S1

Remark (If any):

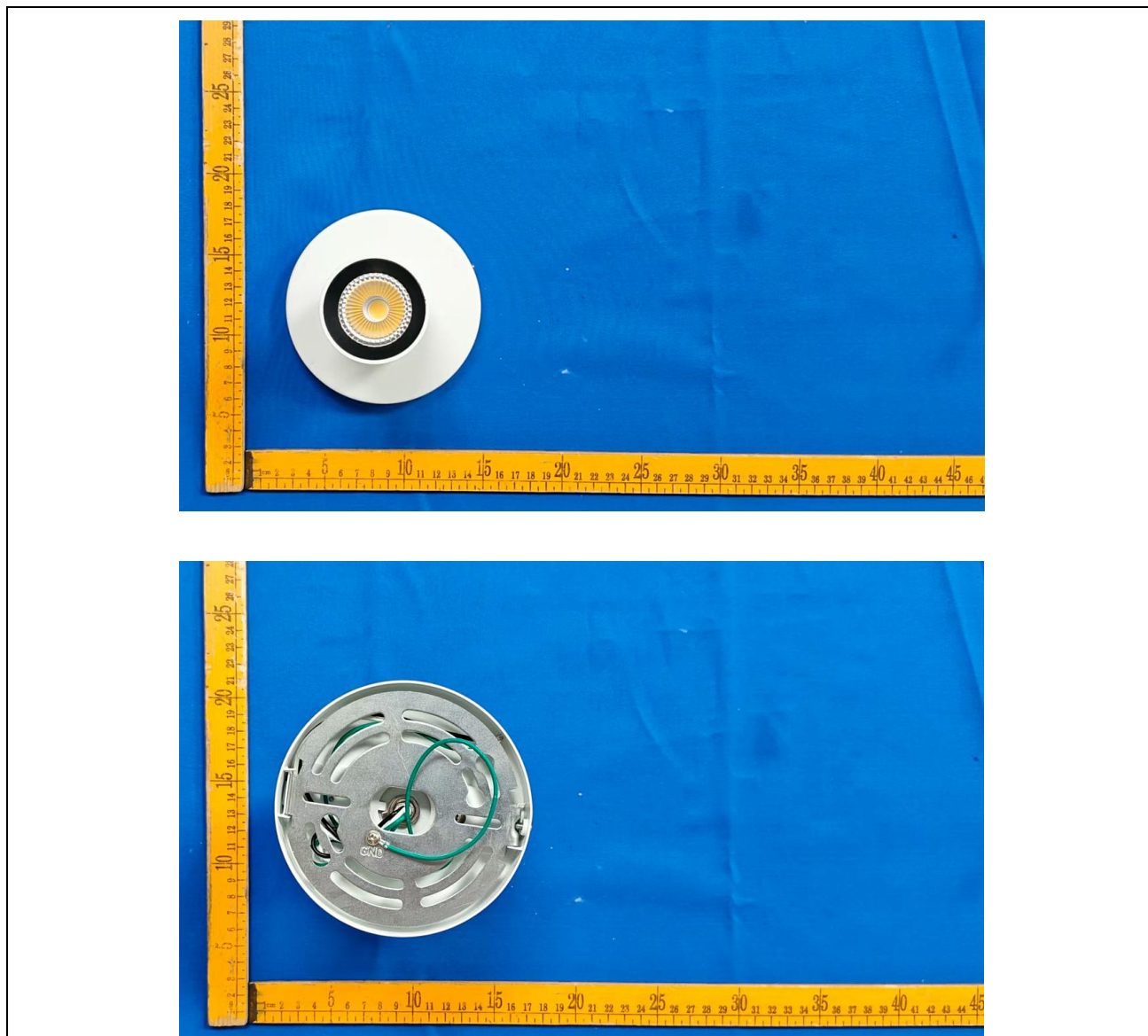
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3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. COL6SM @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.	COL6SM @5000K Black trim	Sample ID	250903015-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

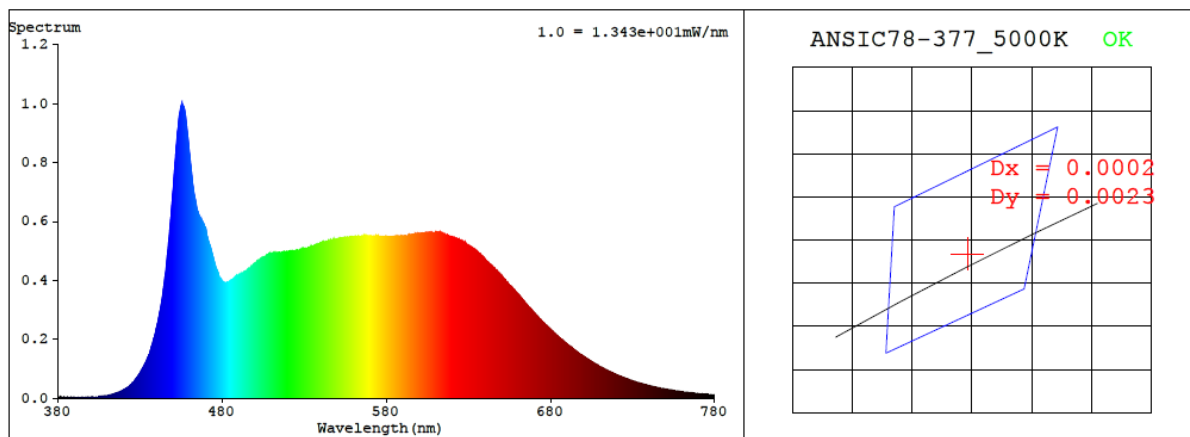
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.050	5.9	0.984

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4999	92.8	71	0.0011	1.0	90	96	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3453$ $y = 0.3540$ / $u' = 0.2107$ $v' = 0.4859$ ($duv=1.10e-03$)

CCT= 4999K Prcp WL: $L_d=571.6\text{nm}$ Purity=9.8%

Peak WL: $L_p=456\text{nm}$ FWHM: $\approx 26.5\text{nm}$ Ratio: R=17.5% G=76.5% B=6.0%

Render Index: $R_a = 92.8$ AvgR = 90.6 TM30: $R_f=91$ $R_g=98$

EEL: 0.13178 A+

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

R8 =86 R9 =71 R10=98 R11=91 R12=68 R13=97 R14=98 R15=92

4.1 Integrating Sphere Test

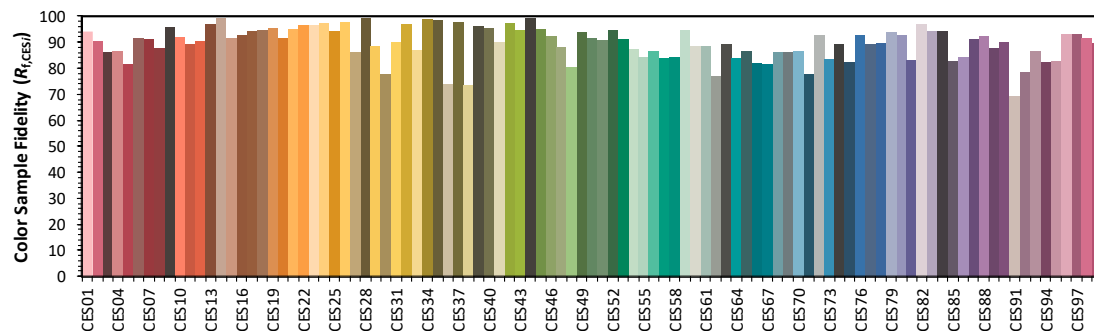
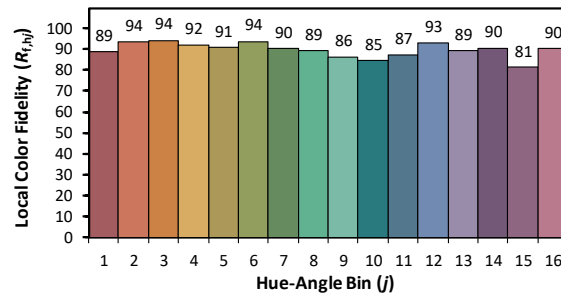
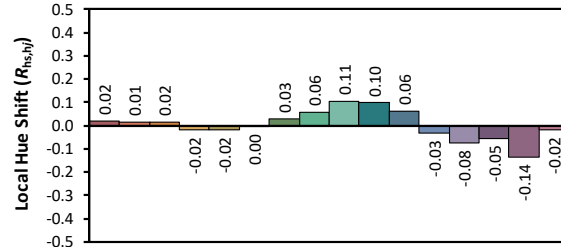
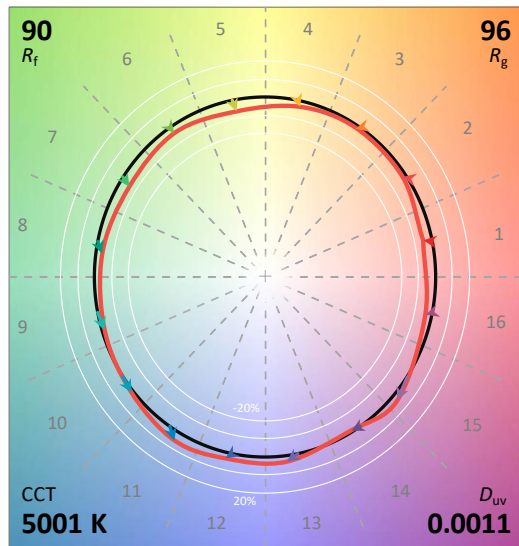
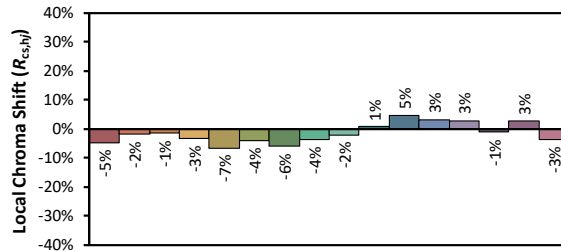
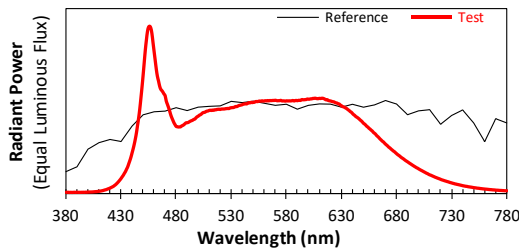
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/16

Model: COL6SM @5000K Black trim



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

x 0.3453

y 0.3538

u' 0.2107

v' 0.4858

CIE 13.3-1995
(CRI)

R_a 93

R_g 70

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	3.20E-06	447	5.00E-04	514	4.91E-04	581	5.48E-04	648	4.29E-04	715	9.33E-05
381	2.90E-06	448	5.63E-04	515	4.95E-04	582	5.48E-04	649	4.22E-04	716	9.08E-05
382	3.60E-06	449	6.28E-04	516	4.95E-04	583	5.48E-04	650	4.15E-04	717	8.81E-05
383	2.40E-06	450	6.99E-04	517	4.97E-04	584	5.48E-04	651	4.10E-04	718	8.56E-05
384	2.90E-06	451	7.74E-04	518	4.97E-04	585	5.49E-04	652	4.04E-04	719	8.32E-05
385	2.60E-06	452	8.49E-04	519	4.98E-04	586	5.50E-04	653	3.96E-04	720	8.03E-05
386	2.50E-06	453	9.10E-04	520	4.97E-04	587	5.47E-04	654	3.92E-04	721	7.76E-05
387	3.00E-06	454	9.62E-04	521	4.99E-04	588	5.49E-04	655	3.85E-04	722	7.57E-05
388	3.20E-06	455	9.88E-04	522	4.99E-04	589	5.51E-04	656	3.80E-04	723	7.34E-05
389	2.70E-06	456	9.93E-04	523	4.99E-04	590	5.49E-04	657	3.73E-04	724	7.12E-05
390	3.50E-06	457	9.82E-04	524	5.00E-04	591	5.51E-04	658	3.68E-04	725	6.93E-05
391	3.00E-06	458	9.50E-04	525	5.01E-04	592	5.51E-04	659	3.60E-04	726	6.70E-05
392	3.00E-06	459	8.96E-04	526	5.02E-04	593	5.51E-04	660	3.55E-04	727	6.54E-05
393	2.80E-06	460	8.42E-04	527	5.03E-04	594	5.56E-04	661	3.49E-04	728	6.29E-05
394	3.10E-06	461	7.89E-04	528	5.02E-04	595	5.55E-04	662	3.41E-04	729	6.09E-05
395	3.10E-06	462	7.36E-04	529	5.06E-04	596	5.54E-04	663	3.35E-04	730	5.91E-05
396	3.40E-06	463	6.94E-04	530	5.07E-04	597	5.55E-04	664	3.29E-04	731	5.70E-05
397	3.10E-06	464	6.67E-04	531	5.08E-04	598	5.56E-04	665	3.21E-04	732	5.54E-05
398	3.90E-06	465	6.36E-04	532	5.08E-04	599	5.59E-04	666	3.15E-04	733	5.33E-05
399	3.70E-06	466	6.18E-04	533	5.11E-04	600	5.58E-04	667	3.08E-04	734	5.20E-05
400	4.40E-06	467	6.10E-04	534	5.14E-04	601	5.58E-04	668	3.04E-04	735	5.03E-05
401	4.60E-06	468	6.00E-04	535	5.14E-04	602	5.60E-04	669	2.97E-04	736	4.90E-05
402	4.80E-06	469	5.88E-04	536	5.17E-04	603	5.60E-04	670	2.90E-04	737	4.75E-05
403	5.00E-06	470	5.79E-04	537	5.20E-04	604	5.62E-04	671	2.85E-04	738	4.59E-05
404	5.30E-06	471	5.48E-04	538	5.22E-04	605	5.62E-04	672	2.79E-04	739	4.44E-05
405	5.90E-06	472	5.29E-04	539	5.23E-04	606	5.64E-04	673	2.72E-04	740	4.27E-05
406	6.50E-06	473	5.10E-04	540	5.25E-04	607	5.63E-04	674	2.67E-04	741	4.14E-05
407	7.10E-06	474	4.90E-04	541	5.29E-04	608	5.61E-04	675	2.61E-04	742	4.00E-05
408	7.40E-06	475	4.67E-04	542	5.29E-04	609	5.61E-04	676	2.56E-04	743	3.89E-05
409	8.50E-06	476	4.49E-04	543	5.31E-04	610	5.63E-04	677	2.50E-04	744	3.81E-05
410	9.20E-06	477	4.33E-04	544	5.30E-04	611	5.62E-04	678	2.45E-04	745	3.64E-05
411	1.02E-05	478	4.18E-04	545	5.34E-04	612	5.63E-04	679	2.39E-04	746	3.55E-05
412	1.13E-05	479	4.06E-04	546	5.37E-04	613	5.63E-04	680	2.34E-04	747	3.44E-05
413	1.28E-05	480	3.96E-04	547	5.36E-04	614	5.61E-04	681	2.28E-04	748	3.35E-05
414	1.43E-05	481	3.94E-04	548	5.39E-04	615	5.58E-04	682	2.23E-04	749	3.22E-05
415	1.66E-05	482	3.92E-04	549	5.38E-04	616	5.54E-04	683	2.18E-04	750	3.10E-05
416	1.82E-05	483	3.93E-04	550	5.39E-04	617	5.56E-04	684	2.13E-04	751	3.02E-05
417	2.03E-05	484	3.93E-04	551	5.40E-04	618	5.51E-04	685	2.08E-04	752	2.93E-05
418	2.32E-05	485	3.99E-04	552	5.43E-04	619	5.49E-04	686	2.04E-04	753	2.80E-05
419	2.54E-05	486	4.02E-04	553	5.44E-04	620	5.47E-04	687	1.99E-04	754	2.75E-05
420	2.85E-05	487	4.06E-04	554	5.44E-04	621	5.45E-04	688	1.93E-04	755	2.67E-05
421	3.16E-05	488	4.12E-04	555	5.46E-04	622	5.43E-04	689	1.89E-04	756	2.56E-05
422	3.50E-05	489	4.17E-04	556	5.47E-04	623	5.42E-04	690	1.85E-04	757	2.49E-05
423	3.84E-05	490	4.18E-04	557	5.46E-04	624	5.39E-04	691	1.80E-04	758	2.40E-05
424	4.35E-05	491	4.20E-04	558	5.48E-04	625	5.36E-04	692	1.76E-04	759	2.32E-05
425	4.84E-05	492	4.24E-04	559	5.46E-04	626	5.35E-04	693	1.72E-04	760	2.26E-05
426	5.47E-05	493	4.27E-04	560	5.47E-04	627	5.31E-04	694	1.67E-04	761	2.19E-05
427	6.14E-05	494	4.30E-04	561	5.49E-04	628	5.29E-04	695	1.63E-04	762	2.14E-05
428	6.89E-05	495	4.33E-04	562	5.48E-04	629	5.23E-04	696	1.58E-04	763	2.06E-05
429	7.69E-05	496	4.38E-04	563	5.50E-04	630	5.19E-04	697	1.55E-04	764	1.99E-05
430	8.54E-05	497	4.40E-04	564	5.48E-04	631	5.14E-04	698	1.50E-04	765	1.92E-05
431	9.52E-05	498	4.47E-04	565	5.50E-04	632	5.12E-04	699	1.47E-04	766	1.88E-05
432	1.04E-04	499	4.53E-04	566	5.49E-04	633	5.09E-04	700	1.43E-04	767	1.79E-05
433	1.16E-04	500	4.57E-04	567	5.50E-04	634	5.05E-04	701	1.39E-04	768	1.75E-05
434	1.27E-04	501	4.62E-04	568	5.51E-04	635	5.01E-04	702	1.35E-04	769	1.70E-05
435	1.41E-04	502	4.65E-04	569	5.50E-04	636	4.95E-04	703	1.32E-04	770	1.62E-05
436	1.54E-04	503	4.70E-04	570	5.52E-04	637	4.91E-04	704	1.28E-04	771	1.57E-05
437	1.74E-04	504	4.76E-04	571	5.50E-04	638	4.84E-04	705	1.25E-04	772	1.55E-05
438	1.92E-04	505	4.79E-04	572	5.49E-04	639	4.80E-04	706	1.21E-04	773	1.47E-05
439	2.13E-04	506	4.80E-04	573	5.49E-04	640	4.73E-04	707	1.17E-04	774	1.42E-05
440	2.38E-04	507	4.84E-04	574	5.49E-04	641	4.66E-04	708	1.15E-04	775	1.41E-05
441	2.63E-04	508	4.87E-04	575	5.51E-04	642	4.62E-04	709	1.11E-04	776	1.34E-05
442	2.90E-04	509	4.88E-04	576	5.48E-04	643	4.55E-04	710	1.07E-04	777	1.32E-05
443	3.22E-04	510	4.91E-04	577	5.48E-04	644	4.51E-04	711	1.05E-04	778	1.24E-05
444	3.59E-04	511	4.92E-04	578	5.48E-04	645	4.46E-04	712	1.02E-04	779	1.24E-05
445	4.03E-04	512	4.91E-04	579	5.46E-04	646	4.41E-04	713	9.92E-05	780	1.24E-05
446	4.48E-04	513	4.93E-04	580	5.48E-04	647	4.34E-04	714	9.64E-05	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	COL6SM @5000K 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

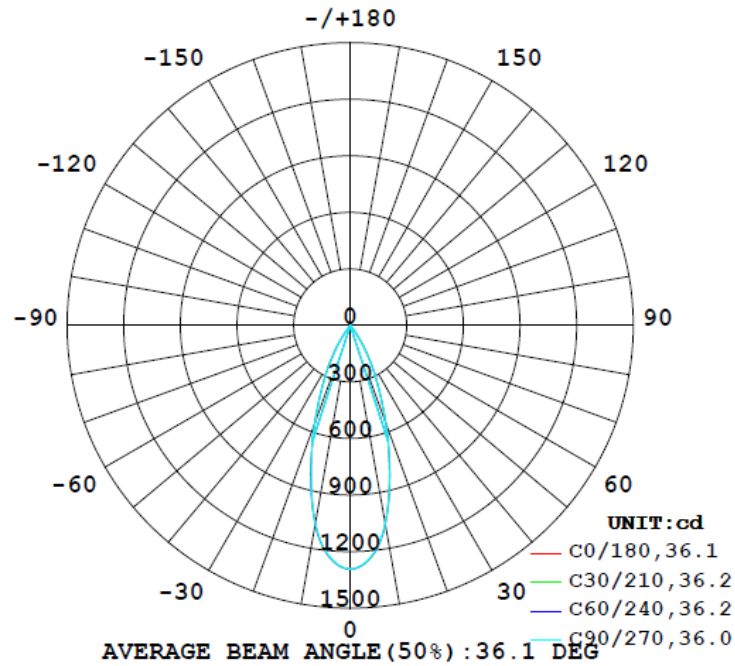
Test Result

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°)
561	65.4	64.5	36.1	36.1	95.1	100.0%

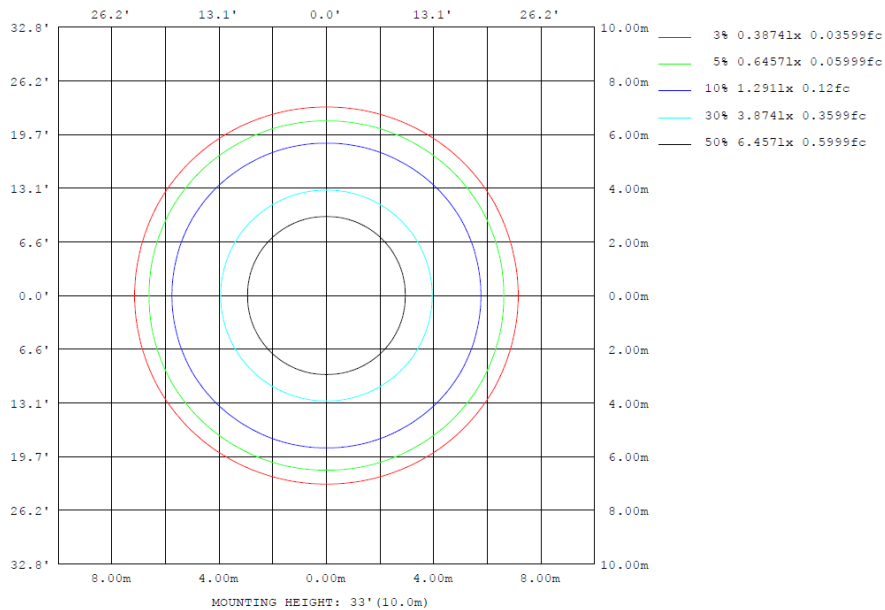
4.2 Goniophotometer Test

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	1067	1071	1069	1071	1067	1071	1069	1071	0- 10	112.9	112.9	20.1,20.1
20	550.6	551.8	547.5	551.8	550.6	551.8	547.5	551.8	10- 20	221.6	334.5	59.6,59.6
30	196.3	193.8	183.5	193.8	196.3	193.8	183.5	193.8	20- 30	158.2	492.7	87.8,87.8
40	13.62	13.35	11.99	13.35	13.62	13.35	11.99	13.35	30- 40	51.41	544.1	96.9,96.9
50	6.087	6.092	5.803	6.092	6.087	6.092	5.803	6.092	40- 50	6.160	550.3	98.98
60	4.769	4.813	4.621	4.813	4.769	4.813	4.621	4.813	50- 60	4.812	555.1	98.9,98.9
70	3.210	3.098	2.856	3.098	3.210	3.098	2.856	3.098	60- 70	4.057	559.1	99.6,99.6
80	0.3598	0.3494	0.2935	0.3494	0.3598	0.3494	0.2935	0.3494	70- 80	2.006	561.1	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.1331	561.3	100,100
100	0	0	0	0	0	0	0	0	90-100	0	561.3	100,100
110	0	0	0	0	0	0	0	0	100-110	0	561.3	100,100
120	0	0	0	0	0	0	0	0	110-120	0	561.3	100,100
130	0	0	0	0	0	0	0	0	120-130	0	561.3	100,100
140	0	0	0	0	0	0	0	0	130-140	0	561.3	100,100
150	0	0	0	0	0	0	0	0	140-150	0	561.3	100,100
160	0	0	0	0	0	0	0	0	150-160	0	561.3	100,100
170	0	0	0	0	0	0	0	0	160-170	0	561.3	100,100
180	0	0	0	0	0	0	0	0	170-180	0	561.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	112.88	0-10	112.88	20.11%
10-20	221.62	0-20	334.50	59.60%
20-30	158.20	0-30	492.70	87.78%
30-40	51.41	0-40	544.11	96.94%
40-50	6.16	0-50	550.27	98.04%
50-60	4.81	0-60	555.08	98.90%
60-70	4.06	0-70	559.14	99.62%
70-80	2.01	0-80	561.15	99.98%
80-90	0.13	0-90	561.28	100.00%
90-100	0.00	0-100	561.28	100.00%
100-110	0.00	0-110	561.28	100.00%
110-120	0.00	0-120	561.28	100.00%
120-130	0.00	0-130	561.28	100.00%
130-140	0.00	0-140	561.28	100.00%
140-150	0.00	0-150	561.28	100.00%
150-160	0.00	0-160	561.28	100.00%
160-170	0.00	0-170	561.28	100.00%
170-180	0.00	0-180	561.28	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
0	1291	1292	1292	1292	1292	1292	1292	1292	1292	1292	1292	1292	1291	1292	1292	1292	1292	1292	1292
5	1238	1238	1238	1238	1237	1236	1234	1236	1237	1238	1238	1238	1238	1238	1238	1238	1237	1236	1234
10	1067	1068	1070	1071	1071	1071	1069	1071	1071	1071	1070	1068	1067	1068	1070	1071	1071	1071	1069
15	805	809	810	813	812	811	807	811	812	813	810	809	805	809	810	813	812	811	807
20	551	552	553	552	552	549	548	549	552	552	553	552	551	552	553	552	552	549	548
25	344	345	344	343	342	341	340	341	342	343	344	345	344	345	344	343	342	341	340
30	196	197	198	194	188	187	184	187	188	194	198	197	196	197	198	194	188	187	184
35	81.0	80.6	81.8	79.4	76.1	73.5	72.3	73.5	76.1	79.4	81.8	80.6	81.0	80.6	81.8	79.4	76.1	73.5	72.3
40	13.6	13.6	13.4	13.3	13.2	12.5	12.0	12.5	13.2	13.3	13.4	13.6	13.6	13.6	13.4	13.3	13.2	12.5	12.0
45	7.37	7.44	7.43	7.33	7.20	7.05	6.95	7.05	7.20	7.33	7.43	7.44	7.37	7.44	7.43	7.33	7.20	7.05	6.95
50	6.09	6.13	6.16	6.09	5.98	5.88	5.80	5.88	5.98	6.09	6.16	6.13	6.09	6.13	6.16	6.09	5.98	5.88	5.80
55	5.39	5.44	5.47	5.43	5.38	5.29	5.22	5.29	5.38	5.43	5.47	5.44	5.39	5.44	5.47	5.43	5.38	5.29	5.22
60	4.77	4.80	4.84	4.81	4.79	4.74	4.62	4.74	4.79	4.81	4.84	4.80	4.77	4.80	4.84	4.81	4.79	4.74	4.62
65	4.32	4.33	4.34	4.26	4.24	4.19	4.08	4.19	4.24	4.26	4.34	4.33	4.32	4.33	4.34	4.26	4.24	4.19	4.08
70	3.21	3.21	3.19	3.10	3.04	2.95	2.86	2.95	3.04	3.10	3.19	3.21	3.21	3.21	3.19	3.10	3.04	2.95	2.86
75	2.22	2.23	2.19	2.12	2.03	1.98	1.83	1.98	2.03	2.12	2.19	2.23	2.22	2.23	2.19	2.12	2.03	1.98	1.83
80	0.36	0.39	0.38	0.35	0.33	0.31	0.29	0.31	0.33	0.35	0.38	0.39	0.36	0.39	0.38	0.35	0.33	0.31	0.29
85	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
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														
0	1292	1292	1292	1292	1292														
5	1236	1237	1238	1238	1238														
10	1071	1071	1071	1070	1068														
15	811	812	813	810	809														
20	549	552	552	553	552														
25	341	342	343	344	345														
30	187	188	194	198	197														
35	73.5	76.1	79.4	81.8	80.6														
40	12.5	13.2	13.3	13.4	13.6														
45	7.05	7.20	7.33	7.43	7.44														
50	5.88	5.98	6.09	6.16	6.13														
55	5.29	5.38	5.43	5.47	5.44														
60	4.74	4.79	4.81	4.84	4.80														
65	4.19	4.24	4.26	4.34	4.33														
70	2.95	3.04	3.10	3.19	3.21														
75	1.98	2.03	2.12	2.19	2.23														
80	0.31	0.33	0.35	0.38	0.39														
85	0.11	0.11	0.11	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 @5000K 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*****