

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

Track Mount Luminaires				
Requirement Category	Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	250		572
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79:2019	Standard	Premium	97.0
		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	11.56
Power Factor (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.981
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019	7 steps	3985±275	3835
		4 steps	3985±154	
Minimum CRI (Integrating Sphere – Section 4.1)	ANSI/IES LM-79:2019 CIE13.3-1995	≥80		93.5
Minimum R9 (Integrating Sphere – Section 4.1)	ANSI/IES LM-79-2019 CIE13.3-1995	≥0		73
Minimum Rf (Integrating Sphere – Section 4.1)	ANSI/IES TM-30-18	≥70		89
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%		-4%
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	COL6 @4000K Black trim	-	250903013-S1
2	Goniophotometer Test	2025-09-15	COL6 @4000K Black trim	-	250903013-S1
3	THD and PF Test	2025-09-15	COL6 @4000K Black trim	-	250903013-S1

Remark (If any):

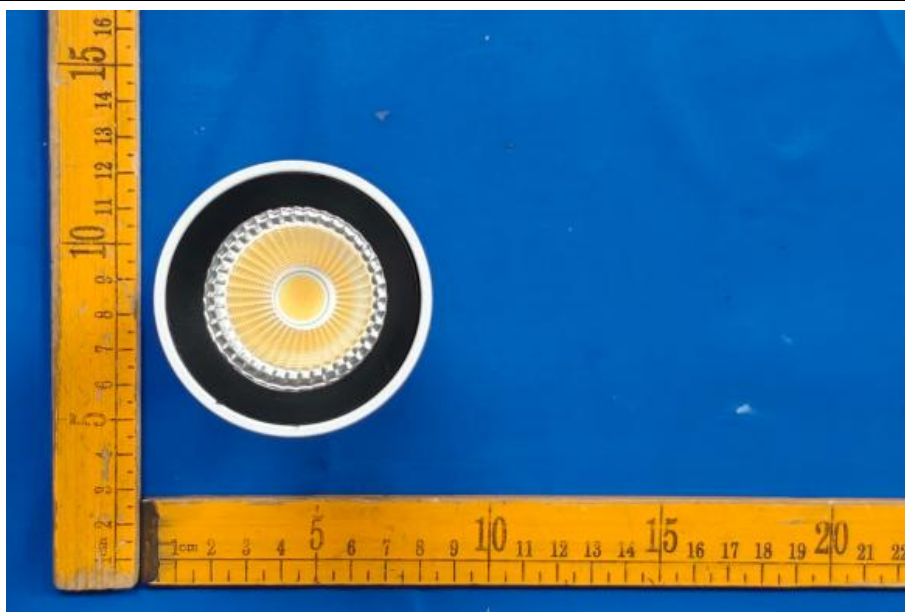
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3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. COL6 @4000K 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.	COL6 @4000K Black trim	Sample ID	250903013-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

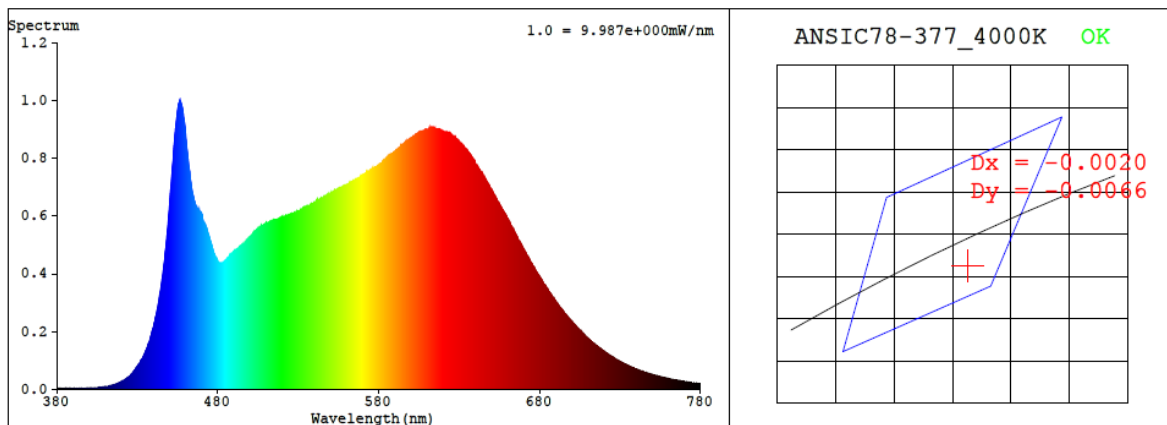
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25\pm 1^{\circ}\text{C}$.</p> <p>The sample measurements 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	0.981

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3835	93.5	73	-0.0025	4.7	89	96	-4%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3860$ $y = 0.3748$ / $u' = 0.2296$ $v' = 0.5015$ ($duv = -2.51e-03$)

CCT= 3835K Prcp WL: Ld=581.0nm Purity=28.3%

Peak WL: Lp=456nm FWHM: =28.5nm Ratio:R=21.0% G=74.1% B=4.9%

Render Index: Ra = 93.5 AvgR = 92.0 TM30:Rf=91 Rg=98

EEI: 0.12994 A+

R1 =97 R2 =98 R3 =95 R4 =93 R5 =95 R6 =94 R7 =90

R8 =86 R9 =73 R10=97 R11=95 R12=76 R13=99 R14=98 R15=94

4.1 Integrating Sphere Test

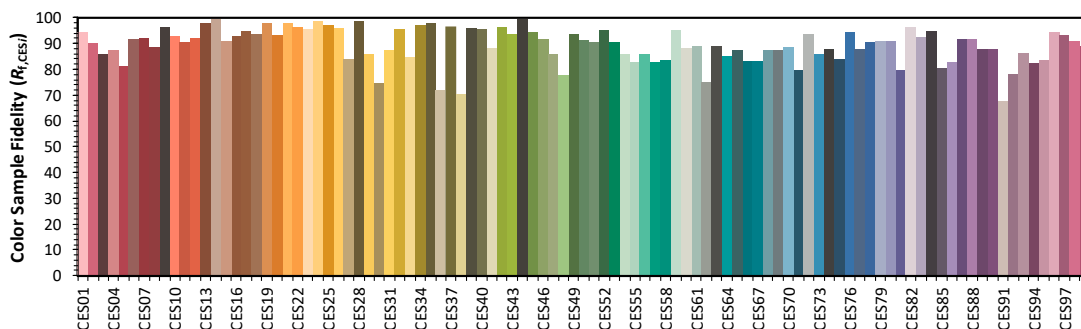
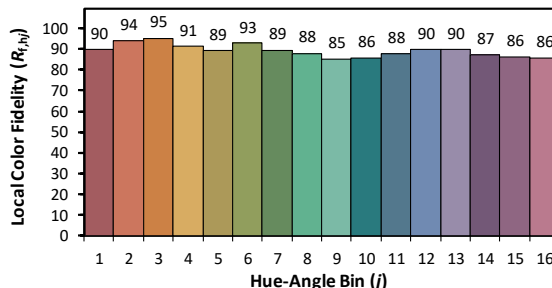
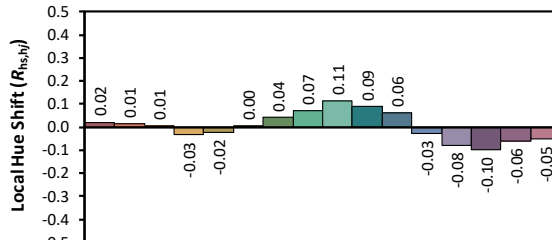
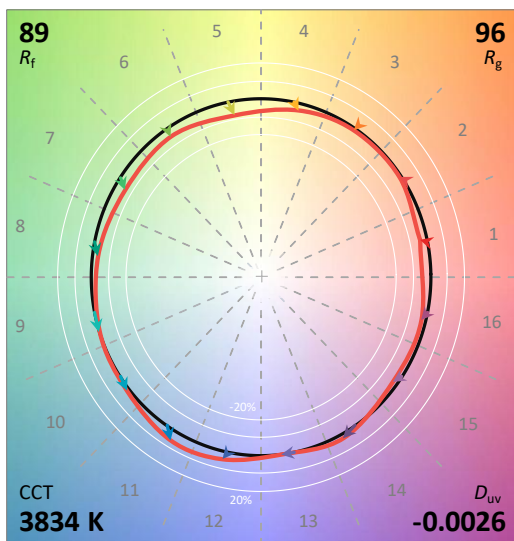
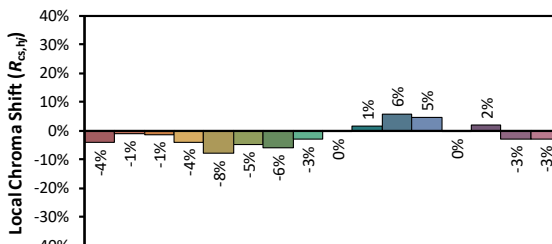
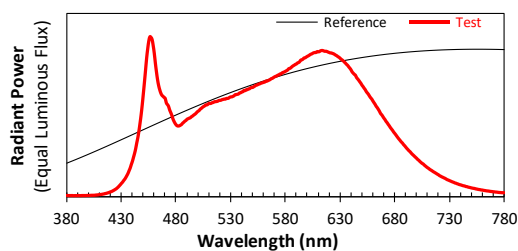
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/16

Model: COL6 @4000K Black trim



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

x 0.3860

y 0.3747

u' 0.2296

v' 0.5015

CIE 13.3-1995
(CRI)

R_a 93

R_g 73

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	4.20E-06	447	4.55E-04	514	5.82E-04	581	7.80E-04	648	7.11E-04	715	1.53E-04
381	3.00E-06	448	5.08E-04	515	5.87E-04	582	7.85E-04	649	7.02E-04	716	1.49E-04
382	3.00E-06	449	5.69E-04	516	5.87E-04	583	7.93E-04	650	6.90E-04	717	1.45E-04
383	3.00E-06	450	6.38E-04	517	5.89E-04	584	7.94E-04	651	6.81E-04	718	1.41E-04
384	3.00E-06	451	7.09E-04	518	5.90E-04	585	7.99E-04	652	6.71E-04	719	1.36E-04
385	3.30E-06	452	7.83E-04	519	5.95E-04	586	8.05E-04	653	6.62E-04	720	1.32E-04
386	2.50E-06	453	8.58E-04	520	5.95E-04	587	8.10E-04	654	6.50E-04	721	1.27E-04
387	2.60E-06	454	9.17E-04	521	5.97E-04	588	8.14E-04	655	6.41E-04	722	1.24E-04
388	3.00E-06	455	9.65E-04	522	6.00E-04	589	8.19E-04	656	6.32E-04	723	1.20E-04
389	2.50E-06	456	9.91E-04	523	6.01E-04	590	8.22E-04	657	6.21E-04	724	1.17E-04
390	2.80E-06	457	9.87E-04	524	6.04E-04	591	8.28E-04	658	6.11E-04	725	1.13E-04
391	3.10E-06	458	9.74E-04	525	6.03E-04	592	8.31E-04	659	6.03E-04	726	1.10E-04
392	2.60E-06	459	9.36E-04	526	6.07E-04	593	8.36E-04	660	5.92E-04	727	1.06E-04
393	2.90E-06	460	8.88E-04	527	6.08E-04	594	8.46E-04	661	5.81E-04	728	1.02E-04
394	3.30E-06	461	8.27E-04	528	6.09E-04	595	8.48E-04	662	5.71E-04	729	9.96E-05
395	3.30E-06	462	7.72E-04	529	6.15E-04	596	8.52E-04	663	5.59E-04	730	9.63E-05
396	3.30E-06	463	7.24E-04	530	6.17E-04	597	8.59E-04	664	5.50E-04	731	9.34E-05
397	3.20E-06	464	6.87E-04	531	6.18E-04	598	8.60E-04	665	5.39E-04	732	9.04E-05
398	3.70E-06	465	6.61E-04	532	6.21E-04	599	8.65E-04	666	5.28E-04	733	8.75E-05
399	3.80E-06	466	6.40E-04	533	6.24E-04	600	8.69E-04	667	5.14E-04	734	8.52E-05
400	3.60E-06	467	6.27E-04	534	6.31E-04	601	8.73E-04	668	5.06E-04	735	8.16E-05
401	4.10E-06	468	6.21E-04	535	6.31E-04	602	8.77E-04	669	4.96E-04	736	7.99E-05
402	4.60E-06	469	6.14E-04	536	6.33E-04	603	8.82E-04	670	4.85E-04	737	7.69E-05
403	4.90E-06	470	6.08E-04	537	6.35E-04	604	8.84E-04	671	4.77E-04	738	7.48E-05
404	5.00E-06	471	5.80E-04	538	6.42E-04	605	8.89E-04	672	4.65E-04	739	7.17E-05
405	5.10E-06	472	5.70E-04	539	6.43E-04	606	8.92E-04	673	4.57E-04	740	7.02E-05
406	5.80E-06	473	5.59E-04	540	6.48E-04	607	8.93E-04	674	4.46E-04	741	6.80E-05
407	6.70E-06	474	5.37E-04	541	6.49E-04	608	8.93E-04	675	4.37E-04	742	6.56E-05
408	7.20E-06	475	5.21E-04	542	6.57E-04	609	8.99E-04	676	4.26E-04	743	6.37E-05
409	8.20E-06	476	5.03E-04	543	6.56E-04	610	8.98E-04	677	4.17E-04	744	6.25E-05
410	8.90E-06	477	4.82E-04	544	6.62E-04	611	8.99E-04	678	4.08E-04	745	5.95E-05
411	9.80E-06	478	4.66E-04	545	6.62E-04	612	9.04E-04	679	3.98E-04	746	5.86E-05
412	1.07E-05	479	4.53E-04	546	6.66E-04	613	9.06E-04	680	3.90E-04	747	5.61E-05
413	1.22E-05	480	4.43E-04	547	6.67E-04	614	9.06E-04	681	3.81E-04	748	5.44E-05
414	1.34E-05	481	4.37E-04	548	6.73E-04	615	9.03E-04	682	3.71E-04	749	5.29E-05
415	1.54E-05	482	4.36E-04	549	6.76E-04	616	9.01E-04	683	3.62E-04	750	5.10E-05
416	1.68E-05	483	4.38E-04	550	6.76E-04	617	9.01E-04	684	3.53E-04	751	4.94E-05
417	1.89E-05	484	4.41E-04	551	6.80E-04	618	8.99E-04	685	3.45E-04	752	4.81E-05
418	2.09E-05	485	4.46E-04	552	6.84E-04	619	8.96E-04	686	3.37E-04	753	4.72E-05
419	2.35E-05	486	4.54E-04	553	6.89E-04	620	8.93E-04	687	3.30E-04	754	4.50E-05
420	2.64E-05	487	4.59E-04	554	6.91E-04	621	8.91E-04	688	3.21E-04	755	4.37E-05
421	2.86E-05	488	4.67E-04	555	6.95E-04	622	8.90E-04	689	3.14E-04	756	4.20E-05
422	3.23E-05	489	4.71E-04	556	6.97E-04	623	8.88E-04	690	3.05E-04	757	4.08E-05
423	3.60E-05	490	4.78E-04	557	7.00E-04	624	8.85E-04	691	2.97E-04	758	3.98E-05
424	4.03E-05	491	4.81E-04	558	7.03E-04	625	8.81E-04	692	2.90E-04	759	3.81E-05
425	4.45E-05	492	4.85E-04	559	7.05E-04	626	8.77E-04	693	2.82E-04	760	3.75E-05
426	5.01E-05	493	4.87E-04	560	7.08E-04	627	8.73E-04	694	2.76E-04	761	3.60E-05
427	5.63E-05	494	4.94E-04	561	7.09E-04	628	8.68E-04	695	2.68E-04	762	3.48E-05
428	6.37E-05	495	4.98E-04	562	7.15E-04	629	8.63E-04	696	2.61E-04	763	3.37E-05
429	7.12E-05	496	5.04E-04	563	7.15E-04	630	8.58E-04	697	2.54E-04	764	3.24E-05
430	7.94E-05	497	5.08E-04	564	7.18E-04	631	8.51E-04	698	2.48E-04	765	3.17E-05
431	8.68E-05	498	5.14E-04	565	7.22E-04	632	8.46E-04	699	2.41E-04	766	3.09E-05
432	9.67E-05	499	5.22E-04	566	7.25E-04	633	8.40E-04	700	2.35E-04	767	2.97E-05
433	1.05E-04	500	5.28E-04	567	7.31E-04	634	8.33E-04	701	2.28E-04	768	2.87E-05
434	1.16E-04	501	5.32E-04	568	7.33E-04	635	8.26E-04	702	2.22E-04	769	2.81E-05
435	1.29E-04	502	5.40E-04	569	7.37E-04	636	8.19E-04	703	2.15E-04	770	2.69E-05
436	1.42E-04	503	5.46E-04	570	7.42E-04	637	8.12E-04	704	2.09E-04	771	2.63E-05
437	1.59E-04	504	5.52E-04	571	7.45E-04	638	8.03E-04	705	2.04E-04	772	2.52E-05
438	1.75E-04	505	5.57E-04	572	7.48E-04	639	7.95E-04	706	2.00E-04	773	2.47E-05
439	1.97E-04	506	5.61E-04	573	7.52E-04	640	7.85E-04	707	1.93E-04	774	2.38E-05
440	2.17E-04	507	5.68E-04	574	7.54E-04	641	7.73E-04	708	1.87E-04	775	2.27E-05
441	2.42E-04	508	5.67E-04	575	7.60E-04	642	7.65E-04	709	1.82E-04	776	2.22E-05
442	2.66E-04	509	5.71E-04	576	7.60E-04	643	7.57E-04	710	1.76E-04	777	2.17E-05
443	2.96E-04	510	5.77E-04	577	7.67E-04	644	7.52E-04	711	1.72E-04	778	2.10E-05
444	3.32E-04	511	5.76E-04	578	7.70E-04	645	7.38E-04	712	1.66E-04	779	2.09E-05
445	3.65E-04	512	5.77E-04	579	7.73E-04	646	7.29E-04	713	1.62E-04	780	2.09E-05
446	4.07E-04	513	5.81E-04	580	7.76E-04	647	7.21E-04	714	1.58E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	COL6 @4000K Black trim	Sample ID	250903013-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 $25\pm1^{\circ}\text{C}$, 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	0.981
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

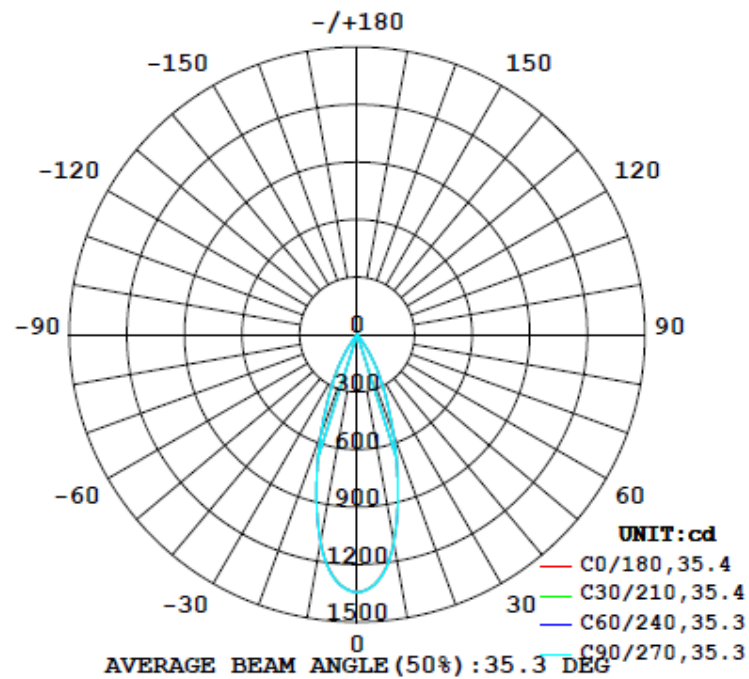
Test Result

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°)
572	65.4	64.7	35.4	35.3	97.0	100.0%

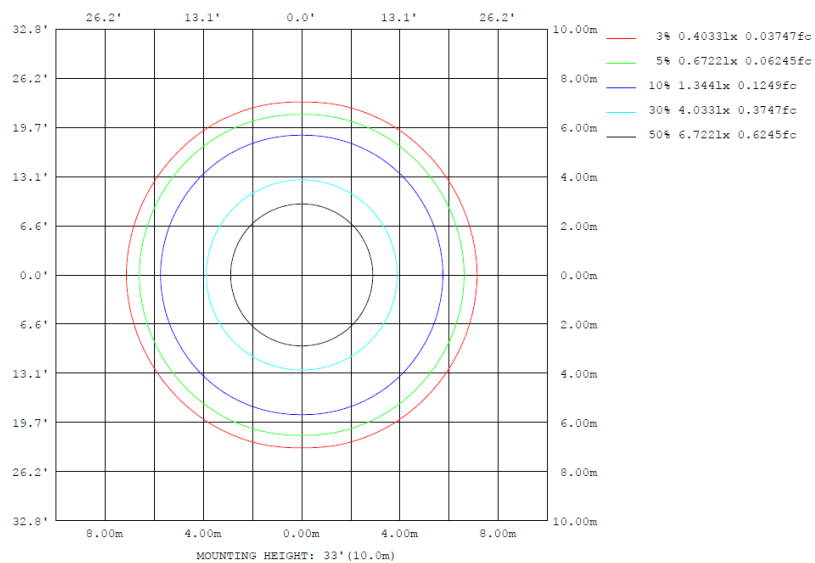
4.2 Goniophotometer Test

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	1097	1100	1102	1100	1097	1100	1102	1100	0- 10	116.9	116.9	20.4,20.4
20	554.8	553.4	551.8	553.4	554.8	553.4	551.8	553.4	10- 20	225.1	342.0	59.8,59.8
30	203.1	202.1	193.8	202.1	203.1	202.1	193.8	202.1	20- 30	160.5	502.5	87.8,87.8
40	13.78	13.94	12.56	13.94	13.78	13.94	12.56	13.94	30- 40	53.29	555.7	97.2,97.2
50	5.900	5.979	5.631	5.979	5.900	5.979	5.631	5.979	40- 50	6.162	561.9	98.2,98.2
60	4.487	4.545	4.145	4.545	4.487	4.545	4.145	4.545	50- 60	4.612	566.5	99.99
70	2.844	2.841	2.480	2.841	2.844	2.841	2.480	2.841	60- 70	3.714	570.2	99.7,99.7
80	0.2085	0.2112	0.1085	0.2112	0.2085	0.2112	0.1085	0.2112	70- 80	1.762	572.0	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0440	572.0	100,100
100	0	0	0	0	0	0	0	0	90-100	0	572.0	100,100
110	0	0	0	0	0	0	0	0	100-110	0	572.0	100,100
120	0	0	0	0	0	0	0	0	110-120	0	572.0	100,100
130	0	0	0	0	0	0	0	0	120-130	0	572.0	100,100
140	0	0	0	0	0	0	0	0	130-140	0	572.0	100,100
150	0	0	0	0	0	0	0	0	140-150	0	572.0	100,100
160	0	0	0	0	0	0	0	0	150-160	0	572.0	100,100
170	0	0	0	0	0	0	0	0	160-170	0	572.0	100,100
180	0	0	0	0	0	0	0	0	170-180	0	572.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	116.91	0-10	116.91	20.44%
10-20	225.06	0-20	341.97	59.78%
20-30	160.48	0-30	502.45	87.84%
30-40	53.29	0-40	555.74	97.15%
40-50	6.16	0-50	561.90	98.23%
50-60	4.61	0-60	566.51	99.04%
60-70	3.71	0-70	570.22	99.69%
70-80	1.76	0-80	571.98	99.99%
80-90	0.04	0-90	572.02	100.00%
90-100	0.00	0-100	572.02	100.00%
100-110	0.00	0-110	572.02	100.00%
110-120	0.00	0-120	572.02	100.00%
120-130	0.00	0-130	572.02	100.00%
130-140	0.00	0-140	572.02	100.00%
140-150	0.00	0-150	572.02	100.00%
150-160	0.00	0-160	572.02	100.00%
160-170	0.00	0-170	572.02	100.00%
170-180	0.00	0-180	572.02	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	1344	1345	1344	1346	1346	1346	1346	1346	1346	1346	1344	1345	1344	1345	1344	1346	1346	1346	1346
5	1283	1285	1284	1286	1287	1288	1287	1288	1287	1286	1284	1285	1283	1285	1284	1286	1287	1288	1287
10	1097	1097	1099	1100	1101	1103	1102	1103	1101	1100	1099	1097	1097	1099	1099	1100	1101	1103	1102
15	820	821	823	823	822	822	822	822	823	823	821	820	821	823	823	822	822	822	822
20	555	554	554	553	553	551	552	551	553	553	554	554	555	554	554	553	553	551	552
25	350	349	349	349	347	345	344	345	347	349	349	349	350	349	349	349	347	345	344
30	203	201	200	202	200	197	194	197	200	202	200	201	203	201	200	202	200	197	194
35	84.3	82.5	81.4	81.2	81.7	80.0	75.7	80.0	81.7	81.2	81.4	82.5	84.3	82.5	81.4	81.2	81.7	80.0	75.7
40	13.8	14.0	14.0	13.9	13.5	12.9	12.6	12.9	13.5	13.9	14.0	14.0	13.8	14.0	14.0	13.9	13.5	12.9	12.6
45	7.18	7.25	7.35	7.32	7.27	7.17	7.00	7.17	7.27	7.32	7.35	7.25	7.18	7.25	7.35	7.32	7.27	7.17	7.00
50	5.90	5.98	6.04	5.98	5.92	5.81	5.63	5.81	5.92	5.98	6.04	5.98	5.90	5.98	6.04	5.98	5.92	5.81	5.63
55	5.19	5.26	5.33	5.30	5.21	5.05	4.88	5.05	5.21	5.30	5.33	5.26	5.19	5.26	5.33	5.30	5.21	5.05	4.88
60	4.49	4.52	4.57	4.54	4.45	4.28	4.15	4.28	4.45	4.54	4.57	4.52	4.49	4.52	4.57	4.54	4.45	4.28	4.15
65	3.98	3.98	4.01	4.01	3.92	3.74	3.60	3.74	3.92	4.01	4.01	3.98	3.98	3.98	4.01	4.01	3.92	3.74	3.60
70	2.84	2.84	2.84	2.84	2.76	2.63	2.48	2.63	2.76	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.76	2.63	2.48
75	1.90	1.96	2.02	1.93	1.84	1.70	1.54	1.70	1.84	1.93	2.02	1.96	1.90	1.96	2.02	1.93	1.84	1.70	1.54
80	0.21	0.23	0.24	0.21	0.18	0.14	0.11	0.14	0.18	0.21	0.24	0.23	0.21	0.23	0.24	0.21	0.18	0.14	0.11
85	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	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	1346	1346	1346	1344	1345														
5	1288	1287	1286	1284	1285														
10	1103	1101	1100	1099	1097														
15	822	822	823	823	821														
20	551	553	553	554	554														
25	345	347	349	349	349														
30	197	200	202	200	201														
35	80.0	81.7	81.2	81.4	82.5														
40	12.9	13.5	13.9	14.0	14.0														
45	7.17	7.27	7.32	7.35	7.25														
50	5.81	5.92	5.98	6.04	5.98														
55	5.05	5.21	5.30	5.33	5.26														
60	4.28	4.45	4.54	4.57	4.52														
65	3.74	3.92	4.01	4.01	3.98														
70	2.63	2.76	2.84	2.84	2.84														
75	1.70	1.84	1.93	2.02	1.96														
80	0.14	0.18	0.21	0.24	0.23														
85	0.03	0.03	0.03	0.03	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.	COL6 @4000K Black trim	Sample ID	250903013-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 $25 \pm 1^\circ\text{C}$. 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	0.981	11.56

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*****