

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		537
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	88.0
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		6.1
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	11.33
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.982
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		92.8
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		6.1
(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 @3000K Black trim	-	250903013-S1
2	Goniophotometer Test	2025-09-15	COL6 @3000K Black trim	-	250903013-S1
3	THD and PF Test	2025-09-15	COL6 @3000K Black trim	-	250903013-S1

Remark (If any):

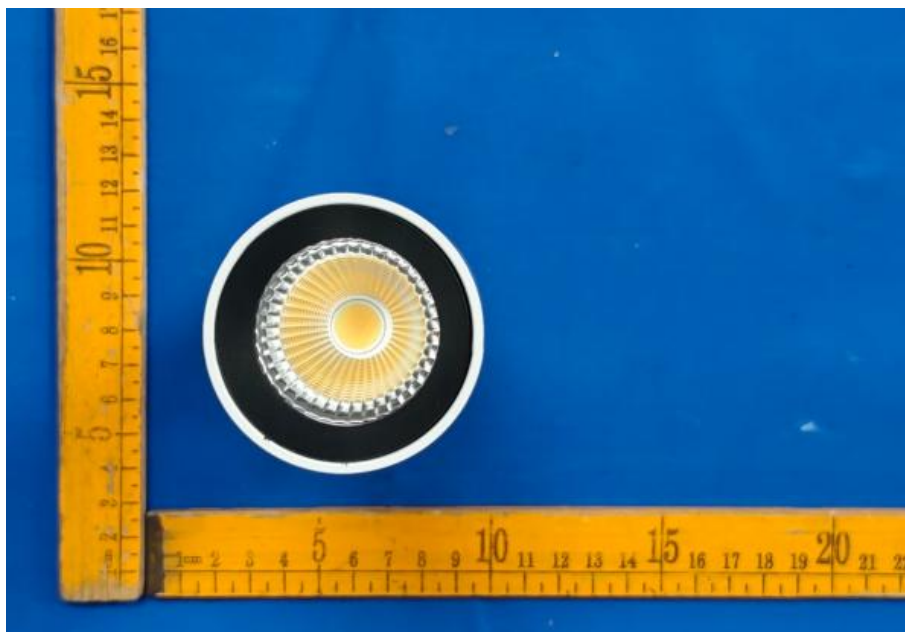
1. The results contained in this report pertain only to the tested samples.
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3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. COL6 @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.	COL6 @3000K Black trim	Sample ID	250903013-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

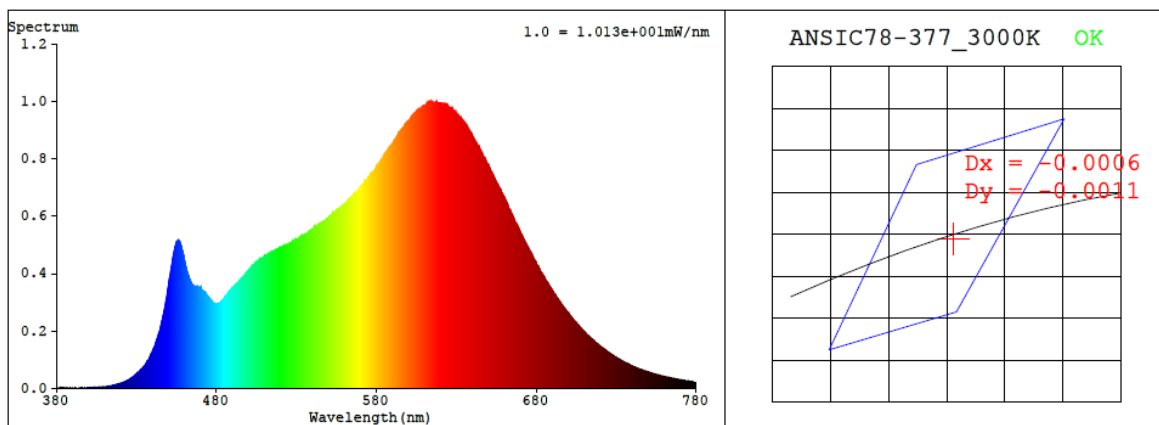
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	6.1	0.982

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
2994	92.8	58	-0.0004	1.9	90	96	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4368$ $y = 0.4031$ / $u' = 0.2509$ $v' = 0.5210$ ($duv = -3.77e-04$)

CCT= 2994K Prcp WL: Ld=583.0nm Purity=52.1%

Peak WL: Lp=613nm FWHM: =148.5nm Ratio:R=24.6% G=71.9% B=3.4%

Render Index: Ra = 92.8 AvgR = 90.9 TM30:Rf=91 Rg=97

EEL: 0.14074 A+

R1 =95 R2 =100 R3 =95 R4 =93 R5 =95 R6 =96 R7 =89
R8 =80 R9 =58 R10=99 R11=96 R12=84 R13=97 R14=98 R15=89

4.1 Integrating Sphere Test

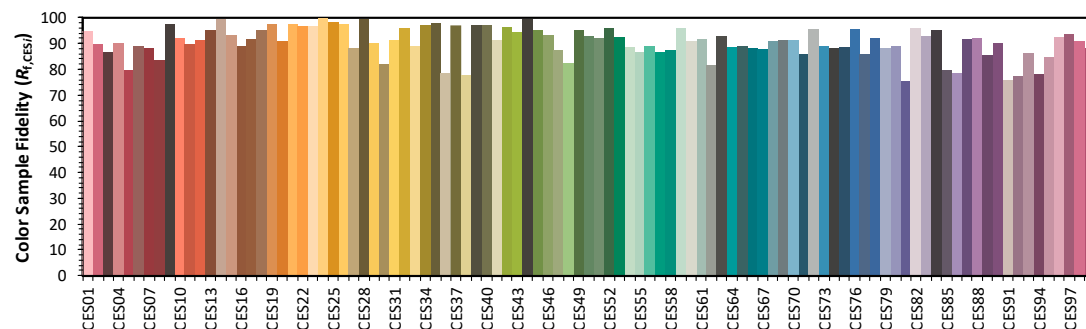
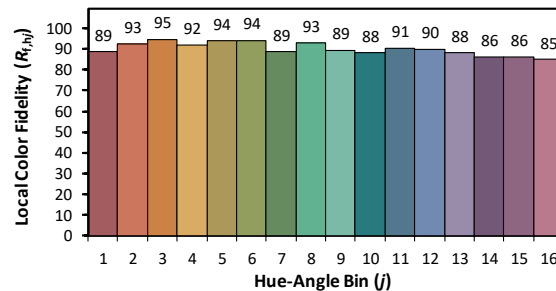
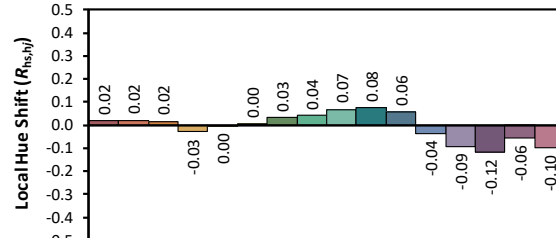
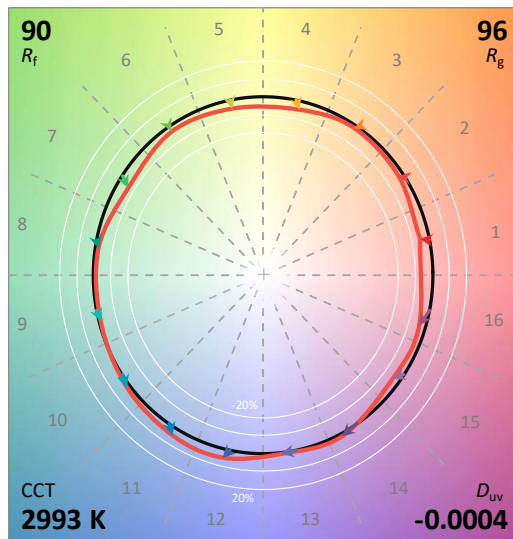
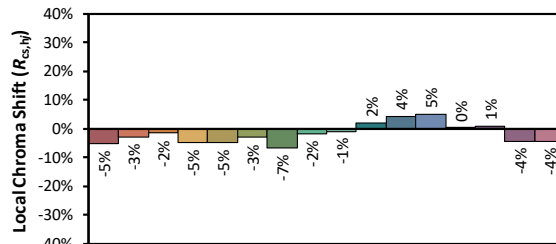
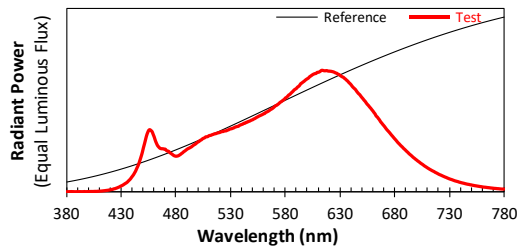
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/16

Model: COL6 @3000K Black trim



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

x 0.4369
 y 0.4030
 u' 0.2510
 v' 0.5210

CIE 13.3-1995
(CRI)
 R_a 93
 R_g 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	1.70E-06	447	2.64E-04	514	4.73E-04	581	7.78E-04	648	7.99E-04	715	1.71E-04
381	9.00E-07	448	2.92E-04	515	4.78E-04	582	7.87E-04	649	7.87E-04	716	1.67E-04
382	1.80E-06	449	3.23E-04	516	4.78E-04	583	7.97E-04	650	7.76E-04	717	1.61E-04
383	1.80E-06	450	3.61E-04	517	4.82E-04	584	8.02E-04	651	7.65E-04	718	1.57E-04
384	2.40E-06	451	3.94E-04	518	4.85E-04	585	8.11E-04	652	7.53E-04	719	1.52E-04
385	1.90E-06	452	4.30E-04	519	4.87E-04	586	8.20E-04	653	7.44E-04	720	1.47E-04
386	1.70E-06	453	4.64E-04	520	4.89E-04	587	8.29E-04	654	7.30E-04	721	1.42E-04
387	1.20E-06	454	4.89E-04	521	4.93E-04	588	8.39E-04	655	7.19E-04	722	1.39E-04
388	1.00E-06	455	5.07E-04	522	4.96E-04	589	8.45E-04	656	7.10E-04	723	1.34E-04
389	1.50E-06	456	5.11E-04	523	4.97E-04	590	8.51E-04	657	6.98E-04	724	1.30E-04
390	1.60E-06	457	5.04E-04	524	5.01E-04	591	8.62E-04	658	6.88E-04	725	1.26E-04
391	1.30E-06	458	4.95E-04	525	5.02E-04	592	8.68E-04	659	6.76E-04	726	1.22E-04
392	2.10E-06	459	4.73E-04	526	5.03E-04	593	8.77E-04	660	6.65E-04	727	1.19E-04
393	1.30E-06	460	4.50E-04	527	5.08E-04	594	8.90E-04	661	6.53E-04	728	1.15E-04
394	1.70E-06	461	4.22E-04	528	5.11E-04	595	8.96E-04	662	6.41E-04	729	1.11E-04
395	1.30E-06	462	4.00E-04	529	5.17E-04	596	9.04E-04	663	6.24E-04	730	1.07E-04
396	2.80E-06	463	3.81E-04	530	5.18E-04	597	9.09E-04	664	6.16E-04	731	1.04E-04
397	1.60E-06	464	3.70E-04	531	5.21E-04	598	9.18E-04	665	6.04E-04	732	1.01E-04
398	1.70E-06	465	3.61E-04	532	5.24E-04	599	9.25E-04	666	5.93E-04	733	9.78E-05
399	2.00E-06	466	3.56E-04	533	5.28E-04	600	9.31E-04	667	5.77E-04	734	9.43E-05
400	2.20E-06	467	3.55E-04	534	5.33E-04	601	9.36E-04	668	5.67E-04	735	9.09E-05
401	2.80E-06	468	3.55E-04	535	5.36E-04	602	9.46E-04	669	5.55E-04	736	8.85E-05
402	3.10E-06	469	3.52E-04	536	5.39E-04	603	9.52E-04	670	5.45E-04	737	8.60E-05
403	3.20E-06	470	3.52E-04	537	5.40E-04	604	9.59E-04	671	5.33E-04	738	8.36E-05
404	3.10E-06	471	3.42E-04	538	5.48E-04	605	9.65E-04	672	5.21E-04	739	8.01E-05
405	3.60E-06	472	3.36E-04	539	5.51E-04	606	9.70E-04	673	5.10E-04	740	7.79E-05
406	4.10E-06	473	3.34E-04	540	5.55E-04	607	9.73E-04	674	5.00E-04	741	7.52E-05
407	3.80E-06	474	3.25E-04	541	5.58E-04	608	9.75E-04	675	4.90E-04	742	7.31E-05
408	4.70E-06	475	3.18E-04	542	5.65E-04	609	9.83E-04	676	4.79E-04	743	7.11E-05
409	5.00E-06	476	3.12E-04	543	5.65E-04	610	9.84E-04	677	4.67E-04	744	6.86E-05
410	5.80E-06	477	3.05E-04	544	5.72E-04	611	9.87E-04	678	4.58E-04	745	6.63E-05
411	6.40E-06	478	2.98E-04	545	5.73E-04	612	9.93E-04	679	4.46E-04	746	6.42E-05
412	7.00E-06	479	2.95E-04	546	5.79E-04	613	9.99E-04	680	4.36E-04	747	6.24E-05
413	8.20E-06	480	2.93E-04	547	5.81E-04	614	1.00E-03	681	4.26E-04	748	6.10E-05
414	9.20E-06	481	2.95E-04	548	5.86E-04	615	9.97E-04	682	4.15E-04	749	5.87E-05
415	1.01E-05	482	2.97E-04	549	5.91E-04	616	9.96E-04	683	4.04E-04	750	5.72E-05
416	1.17E-05	483	3.03E-04	550	5.94E-04	617	9.97E-04	684	3.96E-04	751	5.50E-05
417	1.25E-05	484	3.09E-04	551	6.00E-04	618	9.97E-04	685	3.86E-04	752	5.34E-05
418	1.42E-05	485	3.16E-04	552	6.03E-04	619	9.94E-04	686	3.77E-04	753	5.16E-05
419	1.56E-05	486	3.22E-04	553	6.10E-04	620	9.94E-04	687	3.68E-04	754	5.01E-05
420	1.75E-05	487	3.31E-04	554	6.15E-04	621	9.93E-04	688	3.58E-04	755	4.86E-05
421	1.97E-05	488	3.37E-04	555	6.19E-04	622	9.91E-04	689	3.50E-04	756	4.70E-05
422	2.13E-05	489	3.44E-04	556	6.25E-04	623	9.89E-04	690	3.42E-04	757	4.56E-05
423	2.47E-05	490	3.51E-04	557	6.28E-04	624	9.87E-04	691	3.33E-04	758	4.40E-05
424	2.64E-05	491	3.56E-04	558	6.33E-04	625	9.83E-04	692	3.25E-04	759	4.29E-05
425	2.97E-05	492	3.60E-04	559	6.37E-04	626	9.78E-04	693	3.15E-04	760	4.12E-05
426	3.30E-05	493	3.66E-04	560	6.43E-04	627	9.75E-04	694	3.07E-04	761	3.97E-05
427	3.69E-05	494	3.71E-04	561	6.45E-04	628	9.68E-04	695	3.00E-04	762	3.86E-05
428	4.07E-05	495	3.78E-04	562	6.54E-04	629	9.65E-04	696	2.91E-04	763	3.80E-05
429	4.58E-05	496	3.85E-04	563	6.58E-04	630	9.58E-04	697	2.83E-04	764	3.66E-05
430	4.99E-05	497	3.90E-04	564	6.63E-04	631	9.52E-04	698	2.76E-04	765	3.54E-05
431	5.45E-05	498	3.96E-04	565	6.68E-04	632	9.46E-04	699	2.69E-04	766	3.46E-05
432	6.00E-05	499	4.04E-04	566	6.75E-04	633	9.42E-04	700	2.62E-04	767	3.33E-05
433	6.63E-05	500	4.11E-04	567	6.80E-04	634	9.34E-04	701	2.54E-04	768	3.20E-05
434	7.18E-05	501	4.15E-04	568	6.86E-04	635	9.27E-04	702	2.48E-04	769	3.12E-05
435	7.78E-05	502	4.24E-04	569	6.93E-04	636	9.18E-04	703	2.41E-04	770	3.01E-05
436	8.65E-05	503	4.28E-04	570	7.01E-04	637	9.11E-04	704	2.34E-04	771	2.89E-05
437	9.58E-05	504	4.36E-04	571	7.09E-04	638	9.00E-04	705	2.28E-04	772	2.83E-05
438	1.05E-04	505	4.41E-04	572	7.13E-04	639	8.91E-04	706	2.22E-04	773	2.74E-05
439	1.17E-04	506	4.44E-04	573	7.20E-04	640	8.82E-04	707	2.15E-04	774	2.64E-05
440	1.29E-04	507	4.52E-04	574	7.27E-04	641	8.69E-04	708	2.09E-04	775	2.60E-05
441	1.41E-04	508	4.53E-04	575	7.36E-04	642	8.59E-04	709	2.03E-04	776	2.47E-05
442	1.57E-04	509	4.55E-04	576	7.41E-04	643	8.51E-04	710	1.97E-04	777	2.40E-05
443	1.73E-04	510	4.62E-04	577	7.48E-04	644	8.42E-04	711	1.91E-04	778	2.31E-05
444	1.94E-04	511	4.64E-04	578	7.55E-04	645	8.29E-04	712	1.86E-04	779	2.31E-05
445	2.13E-04	512	4.66E-04	579	7.62E-04	646	8.18E-04	713	1.81E-04	780	2.32E-05
446	2.36E-04	513	4.71E-04	580	7.73E-04	647	8.07E-04	714	1.76E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	COL6 @3000K 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	0.052	6.1	0.982
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

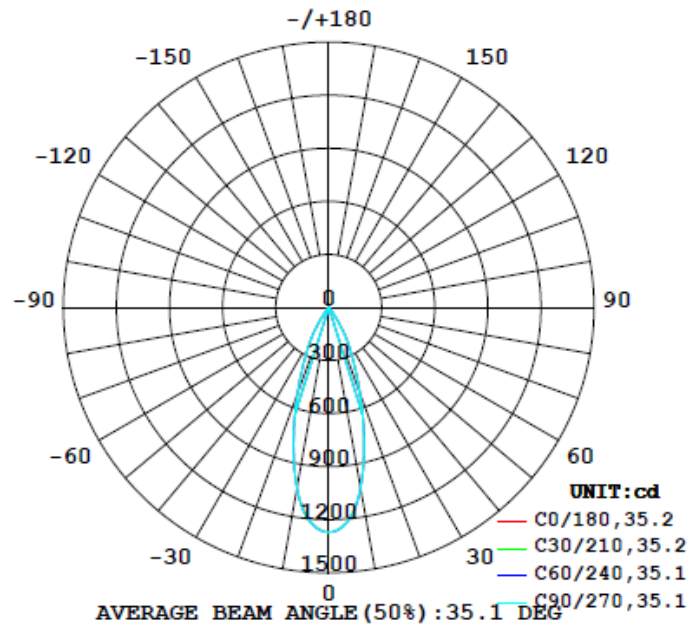
Test Result

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°)
537	65.4	64.6	35.3	35.1	88.0	100.0%

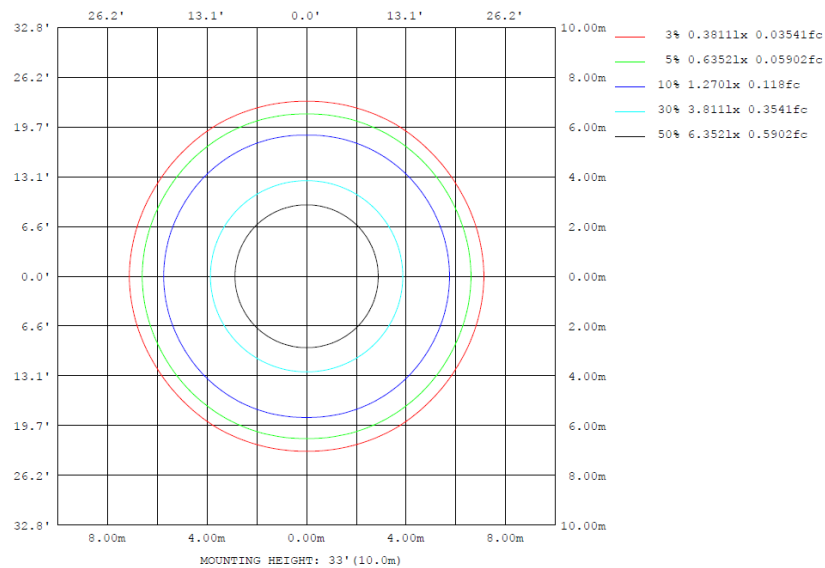
4.2 Goniophotometer Test

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	1034	1040	1037	1040	1034	1040	1037	1040	0- 10	110.4	110.4	20.6,20.6
20	519.7	518.3	514.7	518.3	519.7	518.3	514.7	518.3	10- 20	211.5	321.9	59.9,59.9
30	192.0	190.4	182.2	190.4	192.0	190.4	182.2	190.4	20- 30	150.3	472.2	87.9,87.9
40	13.22	12.70	11.70	12.70	13.22	12.70	11.70	12.70	30- 40	49.65	521.8	97.2,97.2
50	5.536	5.604	5.270	5.604	5.536	5.604	5.270	5.604	40- 50	5.694	527.5	98.2,98.2
60	4.226	4.289	3.896	4.289	4.226	4.289	3.896	4.289	50- 60	4.331	531.8	99.99
70	2.680	2.680	2.334	2.680	2.680	2.680	2.334	2.680	60- 70	3.505	535.3	99.7,99.7
80	0.2287	0.2211	0.1111	0.2211	0.2287	0.2211	0.1111	0.2211	70- 80	1.672	537.0	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0442	537.1	100,100
100	0	0	0	0	0	0	0	0	90-100	0	537.1	100,100
110	0	0	0	0	0	0	0	0	100-110	0	537.1	100,100
120	0	0	0	0	0	0	0	0	110-120	0	537.1	100,100
130	0	0	0	0	0	0	0	0	120-130	0	537.1	100,100
140	0	0	0	0	0	0	0	0	130-140	0	537.1	100,100
150	0	0	0	0	0	0	0	0	140-150	0	537.1	100,100
160	0	0	0	0	0	0	0	0	150-160	0	537.1	100,100
170	0	0	0	0	0	0	0	0	160-170	0	537.1	100,100
180	0	0	0	0	0	0	0	0	170-180	0	537.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

	Zonal (lm)		Total (lm)	Percent
0-10	110.41	0-10	110.41	20.56%
10-20	211.46	0-20	321.87	59.93%
20-30	150.29	0-30	472.16	87.92%
30-40	49.65	0-40	521.81	97.16%
40-50	5.69	0-50	527.50	98.22%
50-60	4.33	0-60	531.83	99.03%
60-70	3.51	0-70	535.34	99.68%
70-80	1.67	0-80	537.01	99.99%
80-90	0.04	0-90	537.05	100.00%
90-100	0.00	0-100	537.05	100.00%
100-110	0.00	0-110	537.05	100.00%
110-120	0.00	0-120	537.05	100.00%
120-130	0.00	0-130	537.05	100.00%
130-140	0.00	0-140	537.05	100.00%
140-150	0.00	0-150	537.05	100.00%
150-160	0.00	0-160	537.05	100.00%
160-170	0.00	0-170	537.05	100.00%
170-180	0.00	0-180	537.05	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
y (DEG)	0	1270	1271	1271	1271	1270	1270	1270	1270	1271	1271	1271	1270	1271	1271	1271	1270	1270	1270
5	1213	1214	1215	1216	1216	1215	1215	1215	1216	1216	1215	1214	1213	1214	1215	1216	1216	1215	1215
10	1034	1036	1038	1040	1040	1039	1037	1039	1040	1040	1038	1036	1034	1036	1038	1040	1040	1039	1037
15	773	773	773	774	772	772	771	772	772	774	773	773	773	773	773	774	772	772	771
20	520	520	519	518	517	515	515	515	517	518	519	520	520	520	519	518	517	515	515
25	327	327	326	326	324	322	321	322	324	326	326	327	327	327	326	326	324	322	321
30	192	191	189	190	189	185	182	185	189	190	189	191	192	191	189	190	189	185	182
35	79.3	77.0	74.1	74.0	75.1	73.5	71.9	73.5	75.1	74.0	74.1	77.0	79.3	77.0	74.1	74.0	75.1	73.5	71.9
40	13.2	13.0	12.7	12.7	12.4	12.0	11.7	12.0	12.4	12.7	12.7	13.0	13.2	13.0	12.7	12.7	12.4	12.0	11.7
45	6.72	6.80	6.87	6.85	6.80	6.69	6.54	6.69	6.80	6.85	6.87	6.80	6.72	6.80	6.87	6.85	6.80	6.69	6.54
50	5.54	5.61	5.66	5.60	5.54	5.44	5.27	5.44	5.54	5.60	5.66	5.61	5.54	5.61	5.66	5.60	5.54	5.44	5.27
55	4.87	4.94	5.01	4.98	4.88	4.73	4.57	4.73	4.88	4.98	5.01	4.94	4.87	4.94	5.01	4.98	4.88	4.73	4.57
60	4.23	4.27	4.31	4.29	4.20	4.03	3.90	4.03	4.20	4.29	4.31	4.27	4.23	4.27	4.31	4.29	4.20	4.03	3.90
65	3.75	3.76	3.79	3.79	3.71	3.53	3.38	3.53	3.71	3.79	3.79	3.76	3.75	3.76	3.79	3.79	3.71	3.53	3.38
70	2.68	2.68	2.67	2.68	2.60	2.47	2.33	2.47	2.60	2.68	2.67	2.68	2.68	2.68	2.67	2.68	2.60	2.47	2.33
75	1.81	1.86	1.91	1.83	1.74	1.61	1.46	1.61	1.74	1.83	1.91	1.86	1.81	1.86	1.91	1.83	1.74	1.61	1.46
80	0.23	0.25	0.25	0.22	0.18	0.14	0.11	0.14	0.18	0.22	0.25	0.25	0.23	0.25	0.25	0.22	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)	285	300	315	330	345														
y (DEG)	0	1270	1270	1271	1271	1271													
5	1215	1216	1216	1215	1214														
10	1039	1040	1040	1038	1036														
15	772	772	774	773	773														
20	515	517	518	519	520														
25	322	324	326	326	327														
30	185	189	190	189	191														
35	73.5	75.1	74.0	74.1	77.0														
40	12.0	12.4	12.7	12.7	13.0														
45	6.69	6.80	6.85	6.87	6.80														
50	5.44	5.54	5.60	5.66	5.61														
55	4.73	4.88	4.98	5.01	4.94														
60	4.03	4.20	4.29	4.31	4.27														
65	3.53	3.71	3.79	3.79	3.76														
70	2.47	2.60	2.68	2.67	2.68														
75	1.61	1.74	1.83	1.91	1.86														
80	0.14	0.18	0.22	0.25	0.25														
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 @3000K 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	0.052	6.1	0.982	11.33

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*****