

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

Recessed Mount Luminaires					
Requirement Category		Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	250		587
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	101.3
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		5.8
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	17.01
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.935
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	5029±283	4918
			4 steps	5029±220	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		93.2
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		70
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		0.052
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		5.8
(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	2025-09-15	COL6RM @5000K Black trim	-	250903014-S1
2	Goniophotometer Test	2025-09-15	COL6RM @5000K Black trim	-	250903014-S1
3	THD and PF Test	2025-09-15	COL6RM @5000K Black trim	-	250903014-S1

Remark (If any):

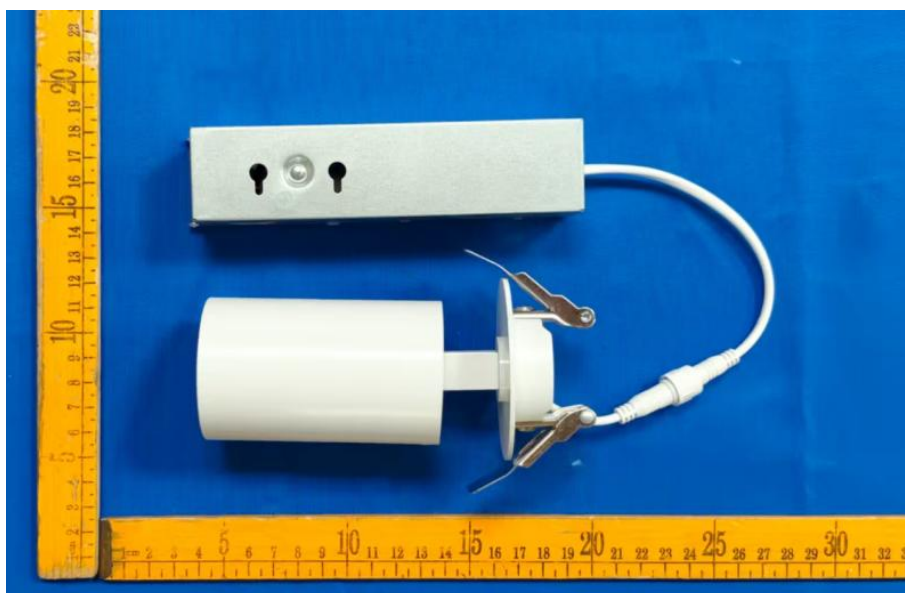
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3.0 Product Description

Luminaire Description: Model No. COL6RM @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.	COL6RM @5000K Black trim	Sample ID	250903014-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

Test Method

The Samples were tested according to the ANSI/IES LM-79:2019.

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.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere.

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.

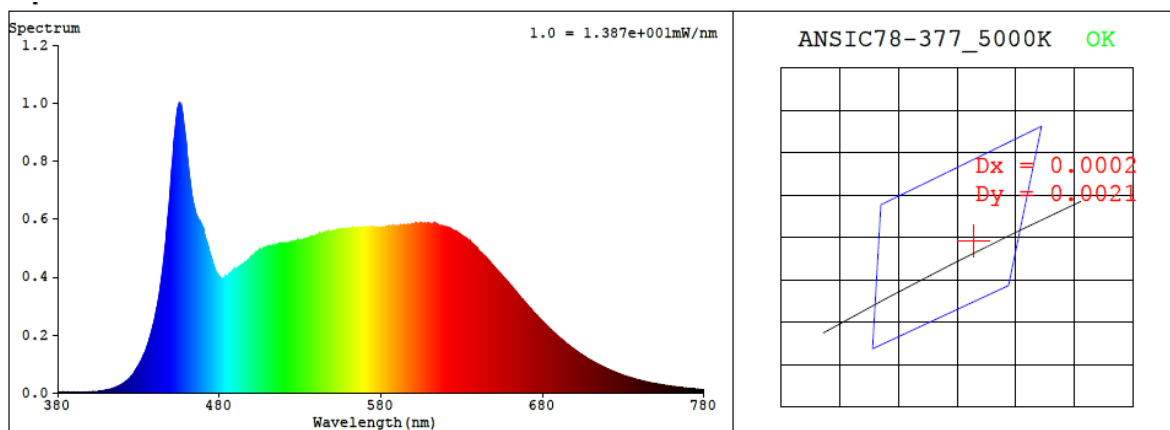
The sample was measured using 4 π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780nm.

Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.052	5.8	0.935

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4918	93.2	70	0.0010	2.1	90	97	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3476$ $y = 0.3556$ / $u' = 0.2116$ $v' = 0.4870$ ($duv=1.00e-03$)

CCT= 4918K Prcp WL: Ld=572.7nm Purity=11.0%

Peak WL: Lp=456nm FWHM: =27.1nm Ratio:R=17.6% G=76.5% B=5.9%

Render Index: Ra = 93.2 AvgR = 90.7 TM30:Rf=91 Rg=98

EEI: 0.12192 A+

R1 =95 R2 =100 R3 =97 R4 =89 R5 =92 R6 =95 R7 =91

R8 =86 R9 =70 R10=98 R11=91 R12=69 R13=97 R14=99 R15=92

4.1 Integrating Sphere Test

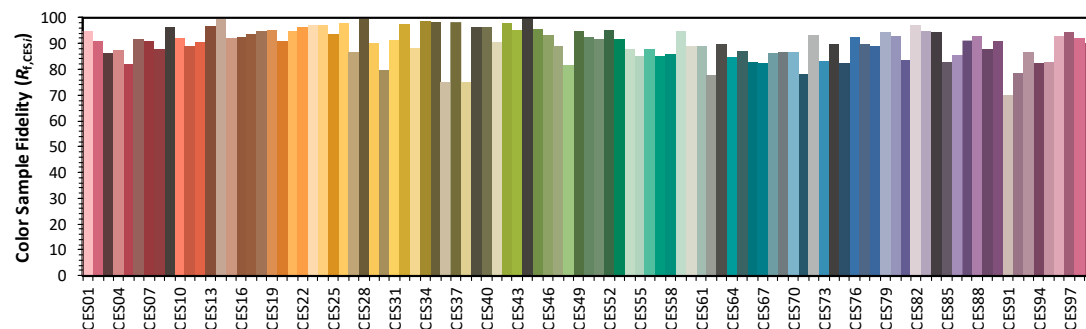
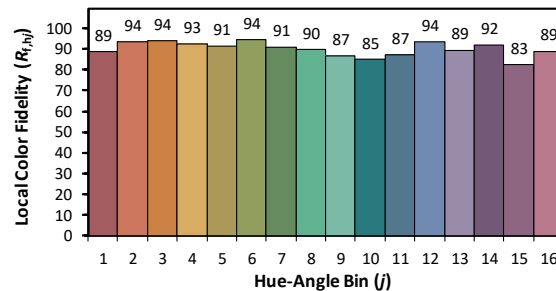
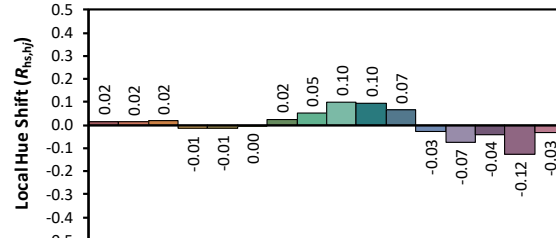
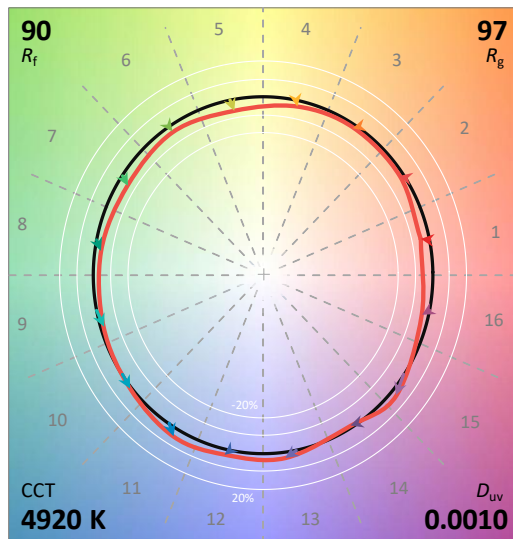
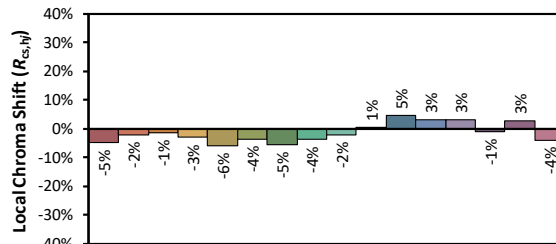
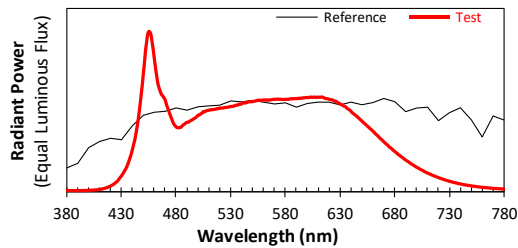
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/16

Model: COL6RM @5000K Black trim



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

x 0.3476
 y 0.3555
 u' 0.2116
 v' 0.4869

CIE 13.3-1995
(CRI)
 R_a 93
 R_9 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	4.40E-06	447	5.38E-04	514	5.09E-04	581	5.73E-04	648	4.49E-04	715	9.73E-05
381	2.60E-06	448	6.01E-04	515	5.09E-04	582	5.72E-04	649	4.42E-04	716	9.46E-05
382	3.30E-06	449	6.61E-04	516	5.11E-04	583	5.73E-04	650	4.36E-04	717	9.18E-05
383	3.10E-06	450	7.33E-04	517	5.14E-04	584	5.74E-04	651	4.30E-04	718	8.91E-05
384	3.10E-06	451	7.99E-04	518	5.13E-04	585	5.77E-04	652	4.23E-04	719	8.65E-05
385	2.70E-06	452	8.77E-04	519	5.17E-04	586	5.75E-04	653	4.18E-04	720	8.37E-05
386	3.10E-06	453	9.30E-04	520	5.16E-04	587	5.77E-04	654	4.11E-04	721	8.15E-05
387	2.70E-06	454	9.78E-04	521	5.18E-04	588	5.76E-04	655	4.05E-04	722	7.88E-05
388	2.70E-06	455	9.95E-04	522	5.18E-04	589	5.77E-04	656	3.99E-04	723	7.67E-05
389	2.90E-06	456	9.91E-04	523	5.18E-04	590	5.76E-04	657	3.92E-04	724	7.43E-05
390	2.90E-06	457	9.74E-04	524	5.20E-04	591	5.77E-04	658	3.86E-04	725	7.19E-05
391	2.80E-06	458	9.30E-04	525	5.21E-04	592	5.79E-04	659	3.81E-04	726	6.98E-05
392	3.00E-06	459	8.83E-04	526	5.22E-04	593	5.77E-04	660	3.73E-04	727	6.74E-05
393	3.10E-06	460	8.28E-04	527	5.22E-04	594	5.80E-04	661	3.67E-04	728	6.53E-05
394	2.90E-06	461	7.75E-04	528	5.24E-04	595	5.80E-04	662	3.59E-04	729	6.35E-05
395	3.40E-06	462	7.27E-04	529	5.26E-04	596	5.80E-04	663	3.53E-04	730	6.10E-05
396	3.50E-06	463	6.81E-04	530	5.27E-04	597	5.82E-04	664	3.48E-04	731	5.90E-05
397	3.80E-06	464	6.52E-04	531	5.27E-04	598	5.82E-04	665	3.40E-04	732	5.78E-05
398	4.00E-06	465	6.31E-04	532	5.29E-04	599	5.83E-04	666	3.34E-04	733	5.56E-05
399	4.20E-06	466	6.11E-04	533	5.31E-04	600	5.83E-04	667	3.26E-04	734	5.40E-05
400	4.80E-06	467	5.98E-04	534	5.33E-04	601	5.82E-04	668	3.21E-04	735	5.23E-05
401	4.80E-06	468	5.91E-04	535	5.36E-04	602	5.86E-04	669	3.14E-04	736	5.08E-05
402	5.00E-06	469	5.80E-04	536	5.36E-04	603	5.85E-04	670	3.07E-04	737	4.93E-05
403	5.60E-06	470	5.68E-04	537	5.41E-04	604	5.86E-04	671	3.01E-04	738	4.71E-05
404	5.90E-06	471	5.43E-04	538	5.41E-04	605	5.84E-04	672	2.95E-04	739	4.60E-05
405	6.50E-06	472	5.23E-04	539	5.41E-04	606	5.86E-04	673	2.90E-04	740	4.45E-05
406	7.10E-06	473	5.06E-04	540	5.45E-04	607	5.86E-04	674	2.82E-04	741	4.31E-05
407	7.80E-06	474	4.85E-04	541	5.48E-04	608	5.84E-04	675	2.75E-04	742	4.15E-05
408	8.20E-06	475	4.66E-04	542	5.52E-04	609	5.85E-04	676	2.70E-04	743	4.03E-05
409	9.40E-06	476	4.48E-04	543	5.49E-04	610	5.86E-04	677	2.65E-04	744	3.91E-05
410	1.07E-05	477	4.31E-04	544	5.51E-04	611	5.85E-04	678	2.58E-04	745	3.78E-05
411	1.14E-05	478	4.17E-04	545	5.53E-04	612	5.85E-04	679	2.52E-04	746	3.69E-05
412	1.27E-05	479	4.08E-04	546	5.57E-04	613	5.87E-04	680	2.47E-04	747	3.55E-05
413	1.40E-05	480	4.00E-04	547	5.57E-04	614	5.85E-04	681	2.41E-04	748	3.44E-05
414	1.60E-05	481	3.96E-04	548	5.58E-04	615	5.83E-04	682	2.36E-04	749	3.38E-05
415	1.78E-05	482	3.95E-04	549	5.57E-04	616	5.78E-04	683	2.30E-04	750	3.25E-05
416	2.04E-05	483	3.97E-04	550	5.59E-04	617	5.77E-04	684	2.24E-04	751	3.12E-05
417	2.26E-05	484	3.97E-04	551	5.59E-04	618	5.76E-04	685	2.20E-04	752	3.04E-05
418	2.55E-05	485	4.02E-04	552	5.61E-04	619	5.75E-04	686	2.13E-04	753	2.94E-05
419	2.82E-05	486	4.10E-04	553	5.63E-04	620	5.72E-04	687	2.09E-04	754	2.86E-05
420	3.13E-05	487	4.15E-04	554	5.63E-04	621	5.70E-04	688	2.04E-04	755	2.79E-05
421	3.50E-05	488	4.19E-04	555	5.66E-04	622	5.70E-04	689	1.98E-04	756	2.68E-05
422	3.90E-05	489	4.26E-04	556	5.66E-04	623	5.68E-04	690	1.93E-04	757	2.61E-05
423	4.38E-05	490	4.29E-04	557	5.67E-04	624	5.64E-04	691	1.89E-04	758	2.51E-05
424	4.89E-05	491	4.29E-04	558	5.66E-04	625	5.61E-04	692	1.85E-04	759	2.45E-05
425	5.49E-05	492	4.34E-04	559	5.67E-04	626	5.60E-04	693	1.80E-04	760	2.36E-05
426	6.05E-05	493	4.38E-04	560	5.68E-04	627	5.57E-04	694	1.75E-04	761	2.27E-05
427	6.80E-05	494	4.42E-04	561	5.67E-04	628	5.51E-04	695	1.70E-04	762	2.22E-05
428	7.77E-05	495	4.46E-04	562	5.69E-04	629	5.48E-04	696	1.66E-04	763	2.14E-05
429	8.62E-05	496	4.51E-04	563	5.68E-04	630	5.44E-04	697	1.62E-04	764	2.08E-05
430	9.52E-05	497	4.54E-04	564	5.66E-04	631	5.39E-04	698	1.57E-04	765	2.01E-05
431	1.05E-04	498	4.59E-04	565	5.68E-04	632	5.37E-04	699	1.53E-04	766	1.96E-05
432	1.16E-04	499	4.65E-04	566	5.68E-04	633	5.32E-04	700	1.48E-04	767	1.88E-05
433	1.29E-04	500	4.73E-04	567	5.69E-04	634	5.28E-04	701	1.45E-04	768	1.83E-05
434	1.40E-04	501	4.73E-04	568	5.71E-04	635	5.26E-04	702	1.42E-04	769	1.78E-05
435	1.55E-04	502	4.80E-04	569	5.71E-04	636	5.18E-04	703	1.37E-04	770	1.69E-05
436	1.72E-04	503	4.83E-04	570	5.73E-04	637	5.13E-04	704	1.33E-04	771	1.67E-05
437	1.91E-04	504	4.88E-04	571	5.73E-04	638	5.09E-04	705	1.30E-04	772	1.60E-05
438	2.12E-04	505	4.97E-04	572	5.73E-04	639	5.04E-04	706	1.27E-04	773	1.55E-05
439	2.33E-04	506	4.94E-04	573	5.73E-04	640	4.97E-04	707	1.23E-04	774	1.51E-05
440	2.59E-04	507	4.99E-04	574	5.73E-04	641	4.89E-04	708	1.19E-04	775	1.45E-05
441	2.88E-04	508	5.01E-04	575	5.72E-04	642	4.84E-04	709	1.16E-04	776	1.43E-05
442	3.15E-04	509	5.03E-04	576	5.72E-04	643	4.78E-04	710	1.13E-04	777	1.37E-05
443	3.49E-04	510	5.04E-04	577	5.72E-04	644	4.73E-04	711	1.09E-04	778	1.33E-05
444	3.91E-04	511	5.06E-04	578	5.71E-04	645	4.68E-04	712	1.07E-04	779	1.33E-05
445	4.31E-04	512	5.07E-04	579	5.71E-04	646	4.61E-04	713	1.04E-04	780	1.33E-05
446	4.83E-04	513	5.07E-04	580	5.72E-04	647	4.56E-04	714	9.98E-05	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	COL6RM @5000K Black trim	Sample ID	250903014-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	0.052	5.8	0.935
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

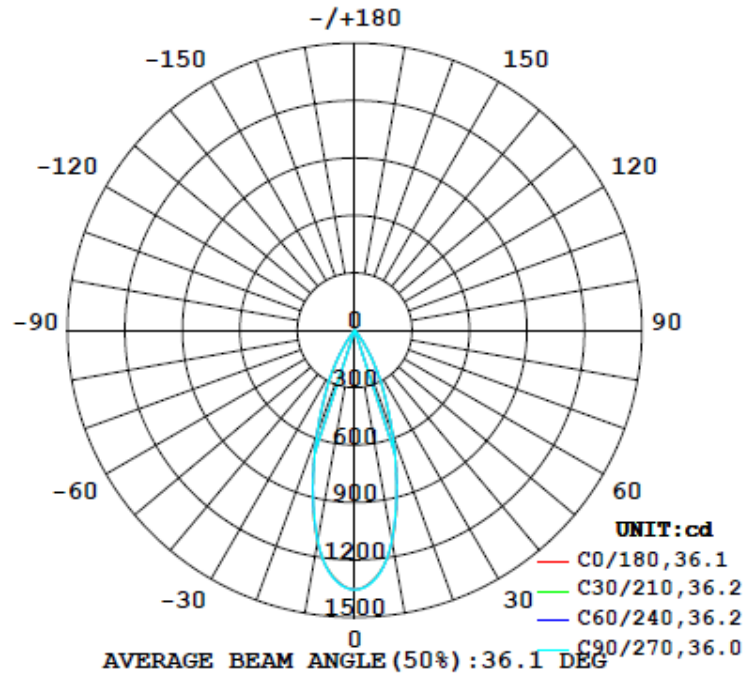
Test Result

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°)
587	65.0	65.0	36.2	36.1	101.3	100.0%

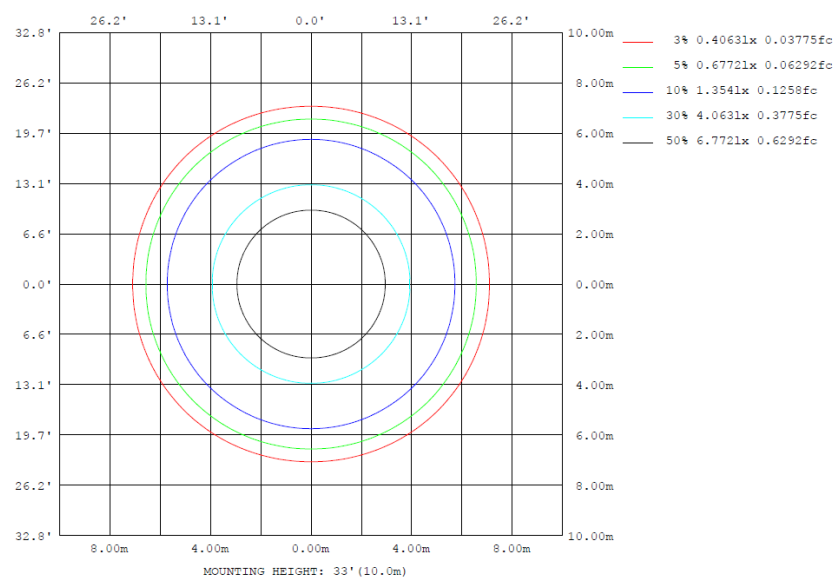
4.2 Goniophotometer Test

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	1122	1120	1115	1120	1122	1120	1115	1120	0- 10	118.2	118.2	20.1,20.1
20	575.7	580.2	576.8	580.2	575.7	580.2	576.8	580.2	10- 20	232.2	350.4	59.6,59.6
30	200.3	205.3	205.3	205.3	200.3	205.3	205.3	205.3	20- 30	167.6	517.9	88.2,88.2
40	12.60	12.53	13.04	12.53	12.60	12.53	13.04	12.53	30- 40	53.95	571.9	97.3,97.3
50	6.037	5.759	5.531	5.759	6.037	5.759	5.531	5.759	40- 50	5.924	577.8	98.4,98.4
60	4.685	4.391	4.061	4.391	4.685	4.391	4.061	4.391	50- 60	4.538	582.3	99.1,99.1
70	2.850	2.600	2.294	2.600	2.850	2.600	2.294	2.600	60- 70	3.604	586.0	99.7,99.7
80	0.0901	0.0792	0.0755	0.0792	0.0901	0.0792	0.0755	0.0792	70- 80	1.507	587.5	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0313	587.5	100,100
100	0	0	0	0	0	0	0	0	90-100	0	587.5	100,100
110	0	0	0	0	0	0	0	0	100-110	0	587.5	100,100
120	0	0	0	0	0	0	0	0	110-120	0	587.5	100,100
130	0	0	0	0	0	0	0	0	120-130	0	587.5	100,100
140	0	0	0	0	0	0	0	0	130-140	0	587.5	100,100
150	0	0	0	0	0	0	0	0	140-150	0	587.5	100,100
160	0	0	0	0	0	0	0	0	150-160	0	587.5	100,100
170	0	0	0	0	0	0	0	0	160-170	0	587.5	100,100
180	0	0	0	0	0	0	0	0	170-180	0	587.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

	Zonal (lm)		Total (lm)	Percent
0-10	118.18	0-10	118.18	20.12%
10-20	232.18	0-20	350.36	59.64%
20-30	167.58	0-30	517.94	88.16%
30-40	53.95	0-40	571.89	97.34%
40-50	5.92	0-50	577.81	98.35%
50-60	4.54	0-60	582.35	99.13%
60-70	3.60	0-70	585.95	99.74%
70-80	1.51	0-80	587.46	99.99%
80-90	0.03	0-90	587.49	100.00%
90-100	0.00	0-100	587.49	100.00%
100-110	0.00	0-110	587.49	100.00%
110-120	0.00	0-120	587.49	100.00%
120-130	0.00	0-130	587.49	100.00%
130-140	0.00	0-140	587.49	100.00%
140-150	0.00	0-150	587.49	100.00%
150-160	0.00	0-160	587.49	100.00%
160-170	0.00	0-170	587.49	100.00%
170-180	0.00	0-180	587.49	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	1354	1354	1354	1355	1354	1354	1355	1354	1354	1355	1354	1354	1354	1354	1354	1355	1354	1354	1355
5	1293	1293	1294	1296	1297	1297	1299	1297	1297	1296	1294	1293	1293	1294	1294	1296	1297	1297	1299
10	1122	1121	1120	1120	1119	1118	1115	1118	1119	1120	1120	1121	1122	1121	1120	1120	1119	1118	1115
15	849	851	850	849	848	845	843	845	848	849	850	851	849	851	850	849	848	845	843
20	576	579	580	580	580	579	577	579	580	580	580	579	576	579	580	580	580	579	577
25	358	360	363	365	366	367	366	367	366	365	363	360	358	360	363	365	366	367	366
30	200	202	205	205	204	205	205	205	204	205	205	202	200	202	205	205	204	205	205
35	81.1	82.5	83.4	84.0	82.8	80.5	79.2	80.5	82.8	84.0	83.4	82.5	81.1	82.5	83.4	84.0	82.8	80.5	79.2
40	12.6	12.6	12.5	12.5	12.8	13.0	13.0	13.0	12.8	12.5	12.5	12.6	12.6	12.6	12.5	12.5	12.8	13.0	13.0
45	7.14	7.11	7.07	7.03	7.01	7.00	6.95	7.00	7.01	7.03	7.07	7.11	7.14	7.11	7.07	7.03	7.01	7.00	6.95
50	6.04	5.95	5.84	5.76	5.69	5.63	5.53	5.63	5.69	5.76	5.84	5.95	6.04	5.95	5.84	5.76	5.69	5.63	5.53
55	5.44	5.32	5.20	5.08	4.99	4.90	4.77	4.90	4.99	5.08	5.20	5.32	5.44	5.32	5.20	5.08	4.99	4.90	4.77
60	4.69	4.61	4.52	4.39	4.29	4.19	4.06	4.19	4.29	4.39	4.52	4.61	4.69	4.61	4.52	4.39	4.29	4.19	4.06
65	4.04	3.98	3.92	3.79	3.67	3.57	3.42	3.57	3.67	3.79	3.92	3.98	4.04	3.98	3.92	3.79	3.67	3.57	3.42
70	2.85	2.79	2.73	2.60	2.51	2.43	2.29	2.43	2.51	2.60	2.73	2.79	2.85	2.79	2.73	2.60	2.51	2.43	2.29
75	1.85	1.78	1.66	1.53	1.39	1.26	1.18	1.26	1.39	1.53	1.66	1.78	1.85	1.78	1.66	1.53	1.39	1.26	1.18
80	0.09	0.08	0.08	0.08	0.07	0.07	0.08	0.07	0.07	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.07	0.07	0.08
85	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	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	1354	1354	1355	1354	1354														
5	1297	1297	1296	1294	1293														
10	1118	1119	1120	1120	1121														
15	845	848	849	850	851														
20	579	580	580	580	579														
25	367	366	365	363	360														
30	205	204	205	205	202														
35	80.5	82.8	84.0	83.4	82.5														
40	13.0	12.8	12.5	12.5	12.6														
45	7.00	7.01	7.03	7.07	7.11														
50	5.63	5.69	5.76	5.84	5.95														
55	4.90	4.99	5.08	5.20	5.32														
60	4.19	4.29	4.39	4.52	4.61														
65	3.57	3.67	3.79	3.92	3.98														
70	2.43	2.51	2.60	2.73	2.79														
75	1.26	1.39	1.53	1.66	1.78														
80	0.07	0.07	0.08	0.08	0.08														
85	0.03	0.02	0.02	0.02	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.	COL6RM @5000K Black trim	Sample ID	250903014-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	0.052	5.8	0.935	17.01

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*****