

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: 2025-08-22

Revised Date: N/A

1.0 Test Summary

Wall mount Luminaire					
Requirement Category		Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	N/A		1338
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	123.9
			N/A	N/A	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		10.8
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	6.61
				277V	32.10
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	0.991
				277V	0.857
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	5029±283	4986
			4 steps	5029±220	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		90.9
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		76
Minimum Rf (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥70		87
Minimum Rg (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥89		95
IES Rcs,h1 (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	-12%≤IES Rcs,h1≤+23%		-4%
Zonal Lumen Requirement (0°-60°) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	N/A		26.5%
Backlight, Uplight and Glare (BUG) Ratings (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019 IES TM-15-11	N/A		B0-U4-G1
Input Voltage (V)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Cast		277.0
(Goniophotometer – Section 4.2)			Non-Worst Case		120.0
Input Current (A)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		0.046
(Goniophotometer – Section 4.2)			Non-Worst Case		0.087
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		10.8
(Goniophotometer – Section 4.2)			Non-Worst Case		10.4

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-08-07	V1-24B @10W5000K	-	250728008-S1
2	Goniophotometer Test	2025-08-07	V1-24B @10W5000K	-	250728008-S1
3	THD and PF Test	2025-08-07	V1-24B @10W5000K	-	250728008-S1

Remark (If any):

1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
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. V1-24B @10W5000K, color tunable from 2700K, 3000K, 3500K, 4000K and 5000K.

Electrical Specification: 120-277Vac, 50/60Hz

Photos of Luminaire Characteristics



4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test

Model No.	V1-24B @10W5000K	Sample ID	250728008-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

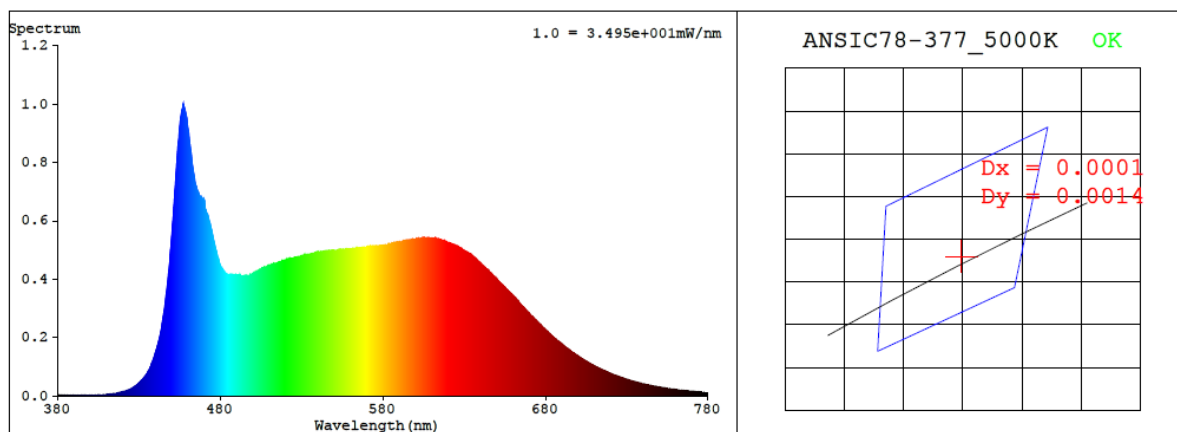
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25\pm1^{\circ}\text{C}$.</p> <p>The sample measurements 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	0.087	10.4	0.991
277.0	60	0.046	10.8	0.857

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4986	90.9	76	0.0006	1.6	87	95	-4%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3457$ $y = 0.3533$ / $u' = 0.2111$ $v' = 0.4856$ ($duv=6.33e-04$)

CCT= 4986K Prcp WL: $L_d=572.3nm$ Purity=9.7%

Peak WL: $L_p=457nm$ FWHM: $=28.4nm$ Ratio: $R=17.8\%$ $G=75.7\%$ $B=6.5\%$

Render Index: $R_a = 90.9$ $AvgR = 89.4$ $TM30:R_f=89$ $R_g=96$

EEL: 0.11436 A+

R1 =96 R2 =96 R3 =93 R4 =85 R5 =92 R6 =94 R7 =87

R8 =85 R9 =76 R10=94 R11=89 R12=67 R13=98 R14=97 R15=92

4.1 Integrating Sphere Test

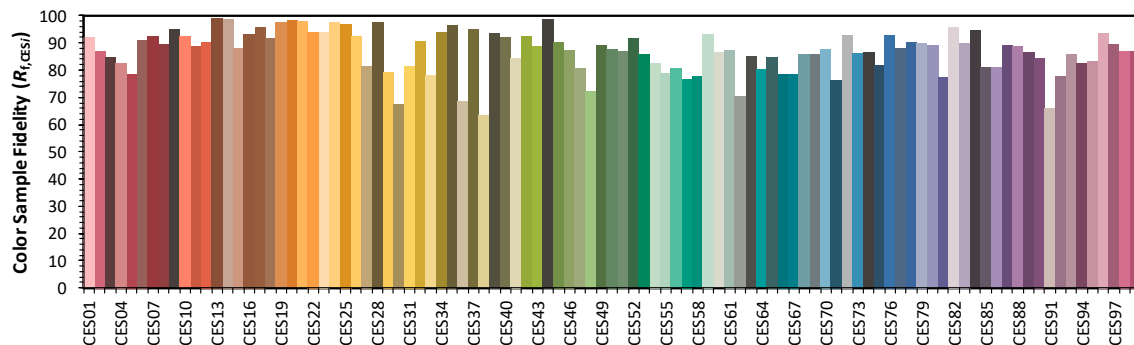
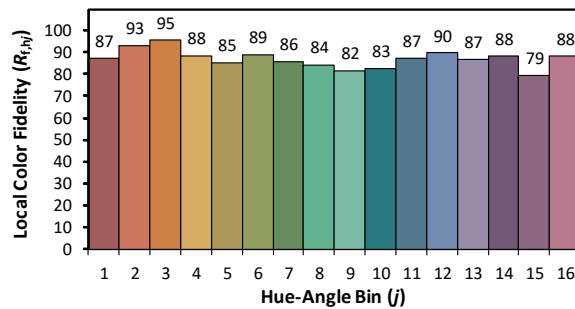
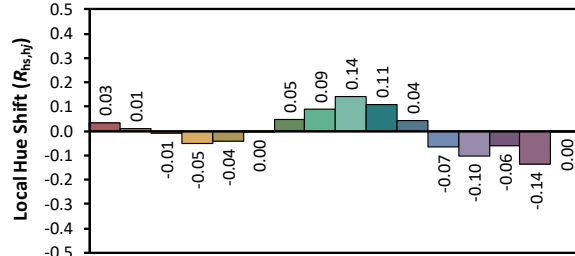
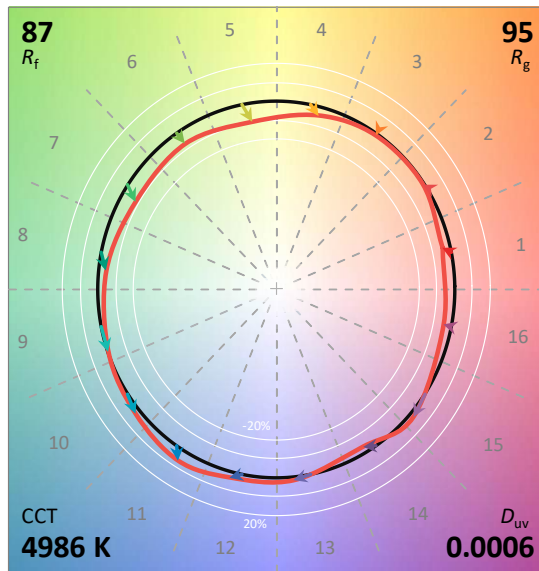
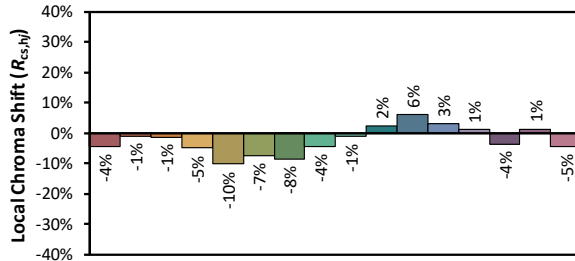
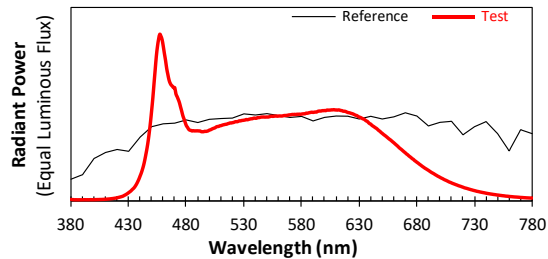
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/8/22

Model: V1-24B @10W5000K



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

x 0.3456
 y 0.3532
 u' 0.2112
 v' 0.4855

CIE 13.3-1995
(CRI)
 R_a 91
 R_g 76

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	3.90E-06	447	3.58E-04	514	4.54E-04	581	5.17E-04	648	4.12E-04	715	8.97E-05
381	3.20E-06	448	4.12E-04	515	4.55E-04	582	5.17E-04	649	4.05E-04	716	8.67E-05
382	2.90E-06	449	4.71E-04	516	4.58E-04	583	5.18E-04	650	4.00E-04	717	8.45E-05
383	2.00E-06	450	5.41E-04	517	4.60E-04	584	5.21E-04	651	3.94E-04	718	8.23E-05
384	2.20E-06	451	6.13E-04	518	4.63E-04	585	5.21E-04	652	3.89E-04	719	7.97E-05
385	2.00E-06	452	6.98E-04	519	4.62E-04	586	5.23E-04	653	3.83E-04	720	7.73E-05
386	1.80E-06	453	7.79E-04	520	4.64E-04	587	5.24E-04	654	3.78E-04	721	7.44E-05
387	2.00E-06	454	8.61E-04	521	4.65E-04	588	5.26E-04	655	3.72E-04	722	7.23E-05
388	1.90E-06	455	9.21E-04	522	4.68E-04	589	5.27E-04	656	3.66E-04	723	7.07E-05
389	1.80E-06	456	9.65E-04	523	4.70E-04	590	5.26E-04	657	3.61E-04	724	6.86E-05
390	2.00E-06	457	9.94E-04	524	4.70E-04	591	5.27E-04	658	3.55E-04	725	6.64E-05
391	2.10E-06	458	9.82E-04	525	4.72E-04	592	5.28E-04	659	3.49E-04	726	6.44E-05
392	2.50E-06	459	9.62E-04	526	4.75E-04	593	5.28E-04	660	3.44E-04	727	6.23E-05
393	2.10E-06	460	9.24E-04	527	4.75E-04	594	5.32E-04	661	3.37E-04	728	6.05E-05
394	2.20E-06	461	8.79E-04	528	4.77E-04	595	5.34E-04	662	3.31E-04	729	5.84E-05
395	2.10E-06	462	8.38E-04	529	4.78E-04	596	5.34E-04	663	3.25E-04	730	5.68E-05
396	2.30E-06	463	7.89E-04	530	4.79E-04	597	5.34E-04	664	3.19E-04	731	5.49E-05
397	2.70E-06	464	7.53E-04	531	4.80E-04	598	5.36E-04	665	3.12E-04	732	5.29E-05
398	2.30E-06	465	7.21E-04	532	4.83E-04	599	5.36E-04	666	3.07E-04	733	5.17E-05
399	2.50E-06	466	7.01E-04	533	4.81E-04	600	5.37E-04	667	3.01E-04	734	5.01E-05
400	2.70E-06	467	6.89E-04	534	4.84E-04	601	5.36E-04	668	2.95E-04	735	4.85E-05
401	2.80E-06	468	6.82E-04	535	4.85E-04	602	5.40E-04	669	2.89E-04	736	4.71E-05
402	3.10E-06	469	6.73E-04	536	4.87E-04	603	5.39E-04	670	2.83E-04	737	4.56E-05
403	3.30E-06	470	6.74E-04	537	4.88E-04	604	5.39E-04	671	2.77E-04	738	4.44E-05
404	3.40E-06	471	6.37E-04	538	4.90E-04	605	5.40E-04	672	2.72E-04	739	4.30E-05
405	3.80E-06	472	6.21E-04	539	4.92E-04	606	5.41E-04	673	2.65E-04	740	4.14E-05
406	3.80E-06	473	6.04E-04	540	4.90E-04	607	5.41E-04	674	2.60E-04	741	4.01E-05
407	4.00E-06	474	5.85E-04	541	4.91E-04	608	5.42E-04	675	2.54E-04	742	3.89E-05
408	4.50E-06	475	5.59E-04	542	4.95E-04	609	5.40E-04	676	2.48E-04	743	3.78E-05
409	4.70E-06	476	5.34E-04	543	4.94E-04	610	5.40E-04	677	2.44E-04	744	3.65E-05
410	5.40E-06	477	5.06E-04	544	4.96E-04	611	5.39E-04	678	2.37E-04	745	3.56E-05
411	5.70E-06	478	4.87E-04	545	4.98E-04	612	5.41E-04	679	2.32E-04	746	3.44E-05
412	6.40E-06	479	4.67E-04	546	4.98E-04	613	5.39E-04	680	2.27E-04	747	3.34E-05
413	6.90E-06	480	4.47E-04	547	4.98E-04	614	5.37E-04	681	2.22E-04	748	3.25E-05
414	7.60E-06	481	4.37E-04	548	4.98E-04	615	5.36E-04	682	2.16E-04	749	3.13E-05
415	8.50E-06	482	4.25E-04	549	4.98E-04	616	5.33E-04	683	2.11E-04	750	3.04E-05
416	9.20E-06	483	4.19E-04	550	4.98E-04	617	5.33E-04	684	2.06E-04	751	2.96E-05
417	1.04E-05	484	4.18E-04	551	4.98E-04	618	5.32E-04	685	2.01E-04	752	2.85E-05
418	1.14E-05	485	4.14E-04	552	5.00E-04	619	5.28E-04	686	1.96E-04	753	2.77E-05
419	1.26E-05	486	4.16E-04	553	5.01E-04	620	5.25E-04	687	1.91E-04	754	2.67E-05
420	1.42E-05	487	4.15E-04	554	5.03E-04	621	5.24E-04	688	1.87E-04	755	2.60E-05
421	1.57E-05	488	4.15E-04	555	5.02E-04	622	5.22E-04	689	1.83E-04	756	2.52E-05
422	1.75E-05	489	4.15E-04	556	5.03E-04	623	5.20E-04	690	1.78E-04	757	2.41E-05
423	1.92E-05	490	4.15E-04	557	5.04E-04	624	5.18E-04	691	1.74E-04	758	2.35E-05
424	2.13E-05	491	4.14E-04	558	5.04E-04	625	5.15E-04	692	1.69E-04	759	2.30E-05
425	2.35E-05	492	4.14E-04	559	5.03E-04	626	5.11E-04	693	1.64E-04	760	2.20E-05
426	2.73E-05	493	4.10E-04	560	5.04E-04	627	5.08E-04	694	1.61E-04	761	2.12E-05
427	3.09E-05	494	4.10E-04	561	5.04E-04	628	5.06E-04	695	1.57E-04	762	2.08E-05
428	3.49E-05	495	4.10E-04	562	5.04E-04	629	5.01E-04	696	1.52E-04	763	2.01E-05
429	3.95E-05	496	4.12E-04	563	5.04E-04	630	4.98E-04	697	1.48E-04	764	1.94E-05
430	4.47E-05	497	4.12E-04	564	5.05E-04	631	4.95E-04	698	1.44E-04	765	1.88E-05
431	4.98E-05	498	4.13E-04	565	5.07E-04	632	4.92E-04	699	1.40E-04	766	1.84E-05
432	5.52E-05	499	4.15E-04	566	5.07E-04	633	4.87E-04	700	1.37E-04	767	1.79E-05
433	6.25E-05	500	4.19E-04	567	5.08E-04	634	4.85E-04	701	1.33E-04	768	1.74E-05
434	6.87E-05	501	4.21E-04	568	5.09E-04	635	4.80E-04	702	1.30E-04	769	1.67E-05
435	7.62E-05	502	4.25E-04	569	5.10E-04	636	4.75E-04	703	1.26E-04	770	1.59E-05
436	8.64E-05	503	4.29E-04	570	5.11E-04	637	4.72E-04	704	1.22E-04	771	1.57E-05
437	9.81E-05	504	4.31E-04	571	5.12E-04	638	4.65E-04	705	1.19E-04	772	1.51E-05
438	1.12E-04	505	4.34E-04	572	5.13E-04	639	4.58E-04	706	1.16E-04	773	1.46E-05
439	1.27E-04	506	4.39E-04	573	5.13E-04	640	4.55E-04	707	1.12E-04	774	1.42E-05
440	1.45E-04	507	4.41E-04	574	5.14E-04	641	4.48E-04	708	1.09E-04	775	1.36E-05
441	1.63E-04	508	4.41E-04	575	5.13E-04	642	4.43E-04	709	1.06E-04	776	1.33E-05
442	1.85E-04	509	4.45E-04	576	5.15E-04	643	4.39E-04	710	1.03E-04	777	1.30E-05
443	2.09E-04	510	4.46E-04	577	5.14E-04	644	4.34E-04	711	1.00E-04	778	1.26E-05
444	2.40E-04	511	4.49E-04	578	5.15E-04	645	4.29E-04	712	9.75E-05	779	1.26E-05
445	2.76E-04	512	4.51E-04	579	5.14E-04	646	4.23E-04	713	9.48E-05	780	1.27E-05
446	3.13E-04	513	4.53E-04	580	5.16E-04	647	4.17E-04	714	9.21E-05	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	V1-24B @10W5000K	Sample ID	250728008-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	24.9	Humidity (%RH)	42.6

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	277.0	60	0.046	10.8	0.857
NON-WORST CASE	120.0	60	0.087	10.4	0.991

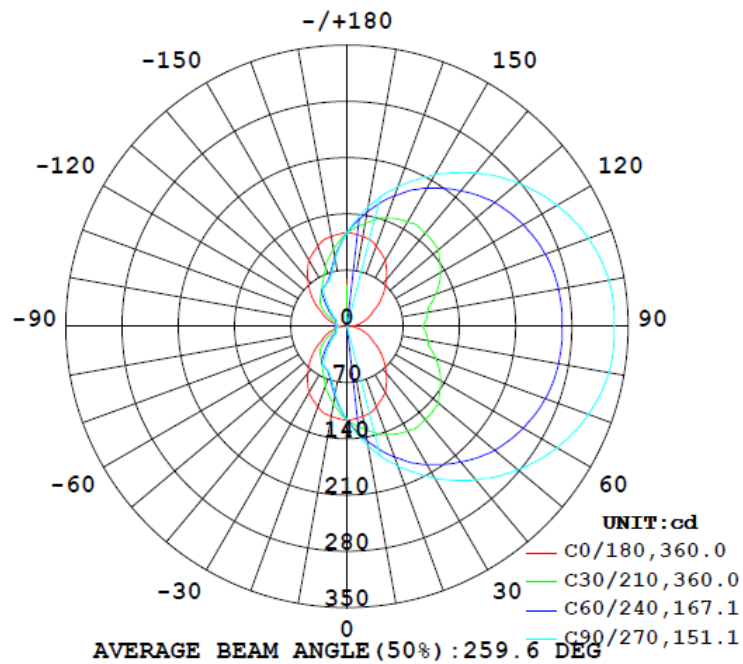
Test Result

Flux (lm)	Field Angle (10%)		Beam Angle (50%)		Luminous Efficacy (lm/W)	Zonal Lumen Requirement	BUG
	C0-180	C90-270	C0-180	C90-270		(0° - 60°)	
1338	86.6	154.8	180.0	97.6	123.9	26.5%	B0-U4-G1

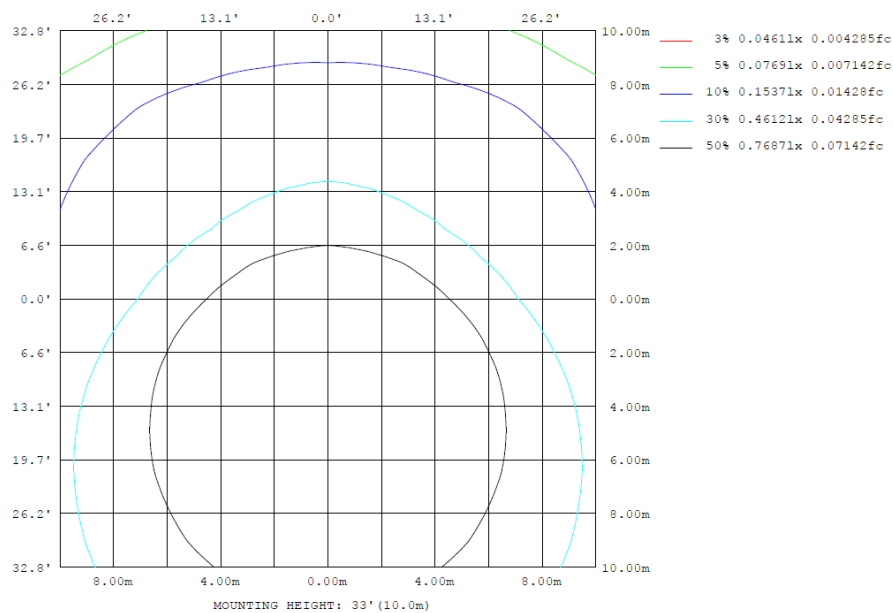
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

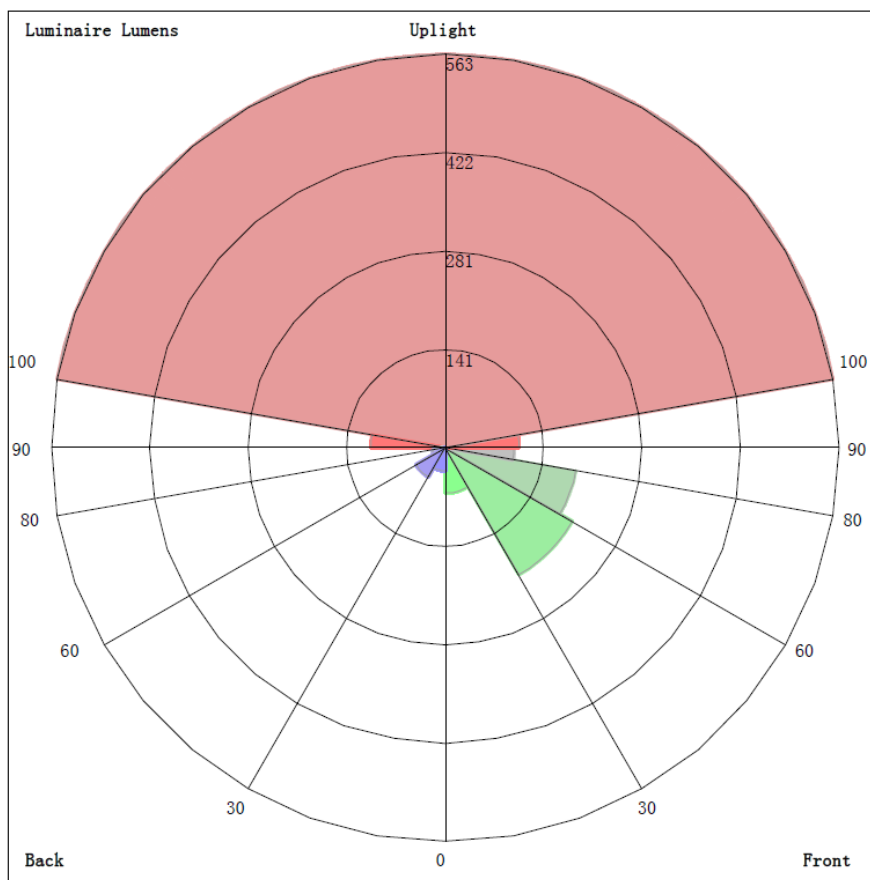
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	113.8	138.0	150.8	138.0	113.8	91.49	85.54	91.49	0-10	11.04	11.04	0.82, 0.82
20	106.4	161.0	185.5	161.0	106.4	70.49	63.14	70.49	10-20	32.65	43.69	3.27, 3.27
30	95.28	176.7	218.2	176.7	95.28	57.14	58.12	57.14	20-30	53.52	97.21	7.27, 7.27
40	76.14	189.8	248.9	189.8	76.14	51.62	39.04	51.62	30-40	73.06	170.3	12.7, 12.7
50	56.98	197.2	277.5	197.2	56.98	34.65	24.17	34.65	40-50	87.68	258.0	19.3, 19.3
60	37.80	199.9	302.1	199.9	37.80	21.56	15.04	21.56	50-60	97.12	355.1	26.5, 26.5
70	25.37	198.2	319.9	198.2	25.37	15.46	14.51	15.46	60-70	102.6	457.7	34.2, 34.2
80	13.60	193.0	330.6	193.0	13.60	14.83	14.08	14.83	70-80	105.2	562.9	42.1, 42.1
90	2.466	188.0	332.3	188.0	2.466	15.42	14.54	15.42	80-90	106.0	668.9	50.5, 50.5
100	13.60	193.0	330.6	193.0	13.60	14.83	14.08	14.83	90-100	106.0	774.9	57.9, 57.9
110	25.37	198.2	319.9	198.2	25.37	15.46	14.51	15.46	100-110	105.2	880.1	65.8, 65.8
120	37.80	199.9	302.1	199.9	37.80	21.56	15.04	21.56	110-120	102.6	982.8	73.5, 73.5
130	56.98	197.2	277.5	197.2	56.98	34.65	24.17	34.65	120-130	97.12	1080	80.7, 80.7
140	76.14	189.8	248.9	189.8	76.14	51.62	39.04	51.62	130-140	87.68	1168	87.3, 87.3
150	95.28	176.7	218.2	176.7	95.28	57.14	58.12	57.14	140-150	73.06	1241	92.7, 92.7
160	106.4	161.0	185.5	161.0	106.4	70.49	63.14	70.49	150-160	53.52	1294	96.7, 96.7
170	113.8	138.0	150.8	138.0	113.8	91.49	85.54	91.49	160-170	32.65	1327	99.2, 99.2
180	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	170-180	11.04	1338	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	11.04	0-10	11.04	0.83%
10-20	32.65	0-20	43.69	3.29%
20-30	53.52	0-30	97.21	7.33%
30-40	73.06	0-40	170.27	12.83%
40-50	87.69	0-50	257.96	19.44%
50-60	97.12	0-60	355.08	26.76%
60-70	102.62	0-70	457.70	34.50%
70-80	105.21	0-80	562.91	42.43%
80-90	106.02	0-90	668.93	50.42%
90-100	106.02	0-100	774.95	58.41%
100-110	105.21	0-110	880.16	66.34%
110-120	102.62	0-120	982.78	74.07%
120-130	97.12	0-130	1079.90	81.39%
130-140	87.69	0-140	1167.59	88.00%
140-150	73.06	0-150	1240.65	93.51%
150-160	53.52	0-160	1294.17	97.54%
160-170	32.65	0-170	1326.82	100.00%
170-180	11.04	0-180	1337.86	100.83%

4.2 Goniophotometer Test

LCS/BUG

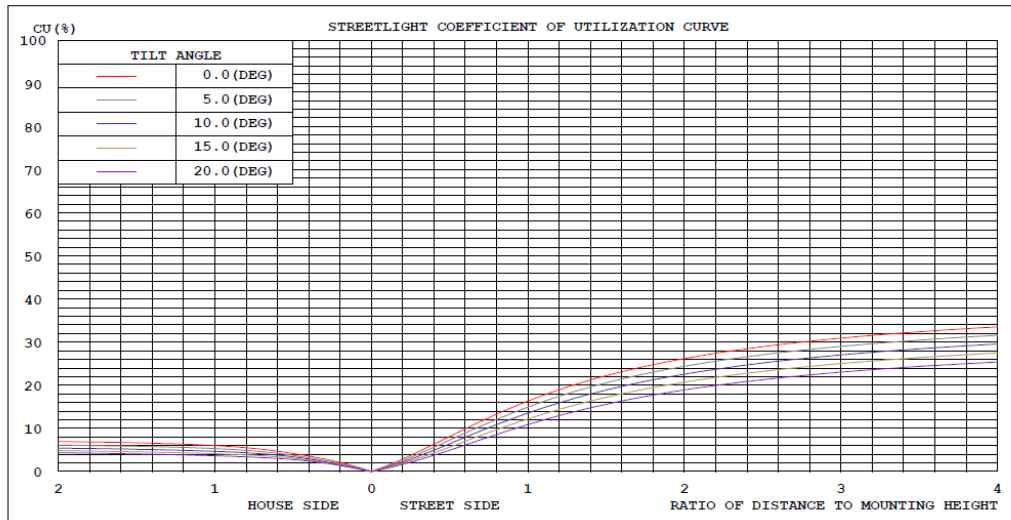


LUMINAIRE CLASSIFICATION SYSTEM (LCS)

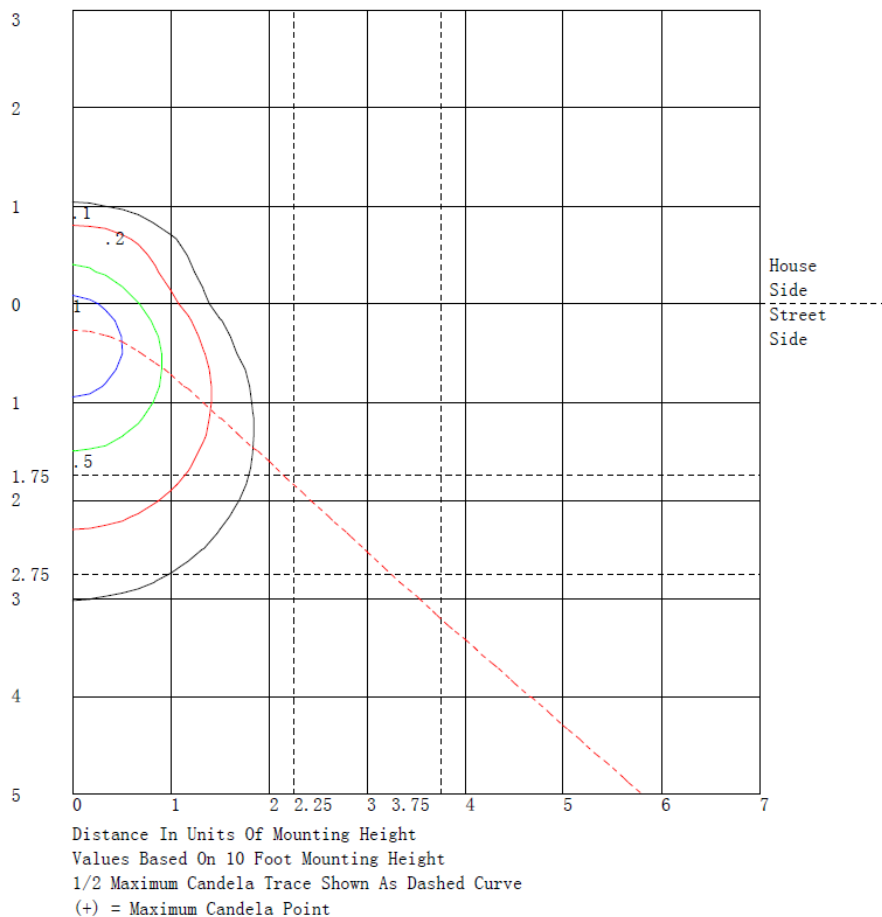
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	64.6	N.A.	4.8
FM - Front-Medium (30-60)	209.9	N.A.	15.7
FH - Front-High (60-80)	189.4	N.A.	14.2
FVH - Front-Very High (80-90)	98.6	N.A.	7.4
BL - Back-Low (0-30)	32.6	N.A.	2.4
BM - Back-Medium (30-60)	47.9	N.A.	3.6
BH - Back-High (60-80)	18.4	N.A.	1.4
BVH - Back-Very High (80-90)	7.4	N.A.	0.6
UL - Uplight-Low (90-100)	106.0	N.A.	7.9
UH - Uplight-High (100-180)	562.9	N.A.	42.1
Total	1337.7	N.A.	100.0
BUG Rating	B0-U4-G1		

4.2 Goniophotometer Test

Coefficients of Utilization



Isolines



4.2 Goniophotometer Test

Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) y (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
5	115	119	123	127	130	132	133	132	130	127	123	119	115	111	107	104	102	101	101
10	114	122	130	138	145	149	151	149	145	138	130	122	114	105	97.9	91.5	87.8	85.7	85.5
15	112	125	137	150	159	166	168	166	159	150	137	125	112	99.5	88.4	80.2	74.5	72.0	71.6
20	106	124	143	161	173	181	186	181	173	161	143	124	106	90.7	78.5	70.5	65.2	63.2	63.1
25	101	123	148	169	187	197	201	197	187	169	148	123	101	81.6	68.6	62.1	59.8	59.0	59.4
30	95.3	122	150	177	199	212	218	212	199	177	150	122	95.3	73.2	61.1	57.1	57.2	57.7	58.1
35	85.7	118	153	183	210	227	234	227	210	183	153	118	85.7	64.1	55.3	54.6	54.9	51.3	50.0
40	76.1	112	152	190	220	242	249	242	220	190	152	112	76.1	56.1	51.0	51.6	45.5	40.5	39.0
45	66.6	107	150	194	231	256	264	256	231	194	150	107	66.6	49.2	47.4	44.2	35.7	32.0	30.7
50	57.0	97.4	148	197	240	268	278	268	240	197	148	97.4	57.0	43.8	43.5	34.7	28.5	25.1	24.2
55	47.4	86.2	141	200	247	279	291	279	247	200	141	86.2	47.4	39.0	36.6	27.1	22.5	19.9	19.4
60	37.8	74.2	135	200	253	289	302	289	253	200	135	74.2	37.8	34.5	28.6	21.6	17.5	15.6	15.0
65	31.6	65.1	127	199	259	298	311	298	259	199	127	65.1	31.6	28.8	21.9	17.2	15.4	14.8	14.7
70	25.4	55.6	118	198	263	305	320	305	263	198	118	55.6	25.4	22.4	18.0	15.5	15.3	14.7	14.5
75	19.2	45.4	108	196	266	310	327	310	266	196	108	45.4	19.2	15.7	14.9	15.1	15.2	14.7	14.4
80	13.6	42.9	102	193	267	314	331	314	267	193	102	42.9	13.6	14.2	14.0	14.8	14.8	14.6	14.1
85	8.03	40.9	98.9	192	268	316	333	316	268	192	98.9	40.9	8.03	13.3	14.3	15.1	15.0	13.2	12.8
90	2.47	38.5	94.0	188	267	317	332	317	267	188	94.0	38.5	2.47	12.5	14.7	15.4	15.8	13.0	14.5
95	8.03	40.9	98.9	192	268	316	333	316	268	192	98.9	40.9	8.03	13.3	14.3	15.1	15.0	13.2	12.8
100	13.6	42.9	102	193	267	314	331	314	267	193	102	42.9	13.6	14.2	14.0	14.8	14.8	14.6	14.1
105	19.2	45.4	108	196	266	310	327	310	266	196	108	45.4	19.2	15.7	14.9	15.1	15.2	14.7	14.4
110	25.4	55.6	118	198	263	305	320	305	263	198	118	55.6	25.4	22.4	18.0	15.5	15.3	14.7	14.5
115	31.6	65.1	127	199	259	298	311	298	259	199	127	65.1	31.6	28.8	21.9	17.2	15.4	14.8	14.7
120	37.8	74.2	135	200	253	289	302	289	253	200	135	74.2	37.8	34.5	28.6	21.6	17.5	15.6	15.0
125	47.4	86.2	141	200	247	279	291	279	247	200	141	86.2	47.4	39.0	36.6	27.1	22.5	19.9	19.4
130	57.0	97.4	148	197	240	268	278	268	240	197	148	97.4	57.0	43.8	43.5	34.7	28.5	25.1	24.2
135	66.6	107	150	194	231	256	264	256	231	194	150	107	66.6	49.2	47.4	44.2	35.7	32.0	30.7
140	76.1	112	152	190	220	242	249	242	220	190	152	112	76.1	56.1	51.0	51.6	45.5	40.5	39.0
145	85.7	118	153	183	210	227	234	227	210	183	153	118	85.7	64.1	55.3	54.6	54.9	51.3	50.0
150	95.3	122	150	177	199	212	218	212	199	177	150	122	95.3	73.2	61.1	57.1	57.2	57.7	58.1
155	101	123	148	169	187	197	201	197	187	169	148	123	101	81.6	68.6	62.1	59.8	59.0	59.4
160	106	124	143	161	173	181	186	181	173	161	143	124	106	90.7	78.5	70.5	65.2	63.2	63.1
165	112	125	137	150	159	166	168	166	159	150	137	125	112	99.5	88.4	80.2	74.5	72.0	71.6
170	114	122	130	138	145	149	151	149	145	138	130	122	114	105	97.9	91.5	87.8	85.7	85.5
175	115	119	123	127	130	132	133	132	130	127	123	119	115	111	107	104	102	101	101
180	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	117	117	117	117	117														
5	101	102	104	107	111														
10	85.7	87.8	91.5	97.9	105														
15	72.0	74.5	80.2	88.4	99.5														
20	63.2	65.2	70.5	78.5	90.7														
25	59.0	59.8	62.1	68.6	81.6														
30	57.7	57.2	57.1	61.1	73.2														
35	51.3	54.9	54.6	55.3	64.1														
40	40.5	45.5	51.6	51.0	56.1														
45	32.0	35.7	44.2	47.4	49.2														
50	25.1	28.5	34.7	43.5	43.8														
55	19.9	22.5	27.1	36.6	39.0														
60	15.6	17.5	21.6	28.6	34.5														
65	14.8	15.4	17.2	21.9	28.8														
70	14.7	15.3	15.5	18.0	22.4														
75	14.7	15.2	15.1	14.9	15.7														
80	14.6	14.8	14.8	14.0	14.2														
85	13.2	15.0	15.1	14.3	13.3														
90	13.0	15.8	15.4	14.7	12.5														
95	13.2	15.0	15.1	14.3	13.3														
100	14.6	14.8	14.8	14.0	14.2														
105	14.7	15.2	15.1	14.9	15.7														
110	14.7	15.3	15.5	18.0	22.4														
115	14.8	15.4	17.2	21.9	28.8														
120	15.6	17.5	21.6	28.6	34.5														
125	19.9	22.5	27.1	36.6	39.0														
130	25.1	28.5	34.7	43.5	43.8														
135	32.0	35.7	44.2	47.4	49.2														
140	40.5	45.5	51.6	51.0	56.1														
145	51.3	54.9	54.6	55.3	64.1														
150	57.7	57.2	57.1	61.1	73.2														
155	59.0	59.8	62.1	68.6	81.6														
160	63.2	65.2	70.5	78.5	90.7														
165	72.0	74.5	80.2	88.4	99.5														
170	85.7	87.8	91.5	97.9	105														
175	101	102	104	107	111														
180	117	117	117	117	117														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	V1-24B @10W5000K	Sample ID	250728008-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	0.087	10.4	0.991	6.61
277.0	60	0.046	10.8	0.857	32.10

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*****