

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		1157
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	107.1
			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	N/A	120V	6.66
		ANSI C82-77-10:2020		277V	32.10
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002	N/A	120V	0.991
		ANSI C82-77-10:2020		277V	0.859
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	2725±145	2771
			4 steps	2725±83	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		93.3
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		64
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%		-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-U3-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		0.045
(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 @10W2700K	-	250728008-S1
2	Goniophotometer Test	2025-08-07	V1-24B @10W2700K	-	250728008-S1
3	THD and PF Test	2025-08-07	V1-24B @10W2700K	-	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 @10W2700K, 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 @10W2700K	Sample ID	250728008-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

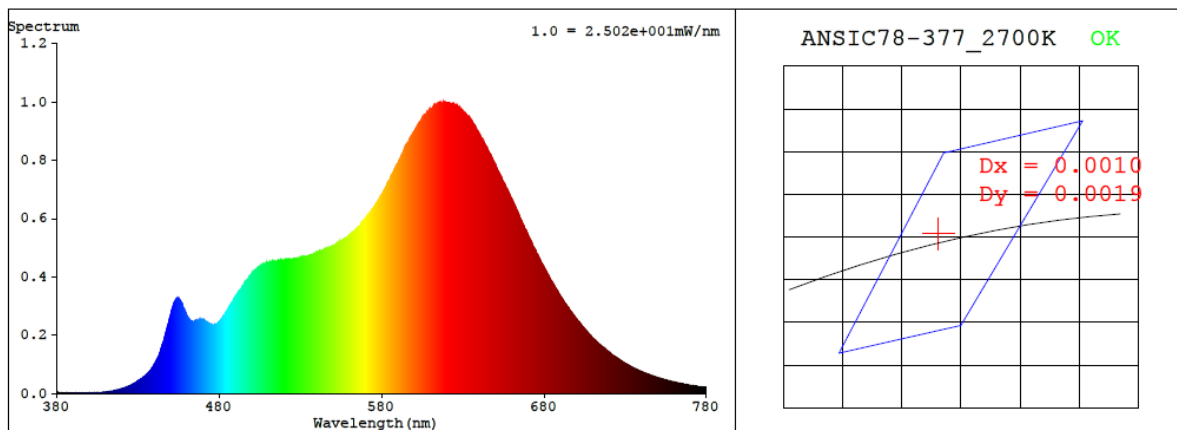
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25\pm1^{\circ}\text{C}$.</p> <p>The sample measurements 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	0.045	10.8	0.859

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
2771	93.3	64	0.0006	2.2	90	96	-4%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4552$ $y = 0.4112$ / $u' = 0.2592$ $v' = 0.5269$ ($duv=6.30e-04$)

CCT= 2771K Prcp WL: $L_d=583.7nm$ Purity=60.1%

Peak WL: $L_p=618nm$ FWHM: $=126.0nm$ Ratio:R=26.8% G=70.0% B=3.2%

Render Index: $R_a = 93.3$ AvgR = 91.4 TM30:Rf=91 Rg=96

EEL: 0.12885 A+

R1 =99 R2 =97 R3 =93 R4 =97 R5 =98 R6 =91 R7 =89

R8 =82 R9 =64 R10=93 R11=94 R12=87 R13=99 R14=97 R15=92

4.1 Integrating Sphere Test

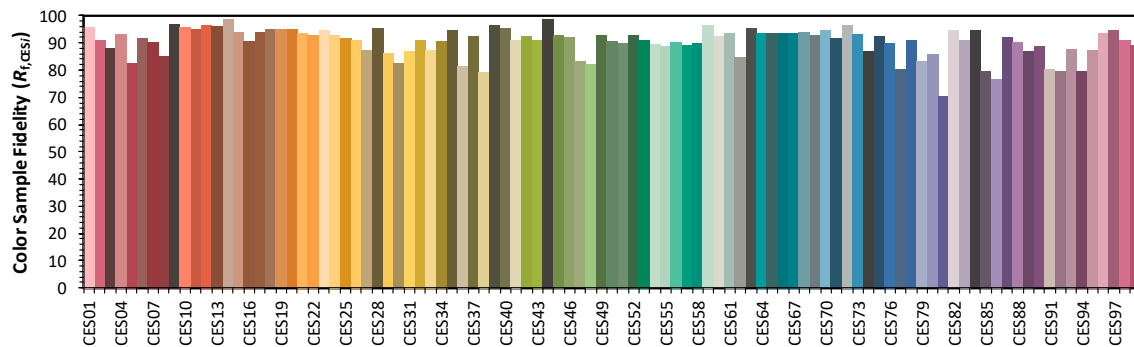
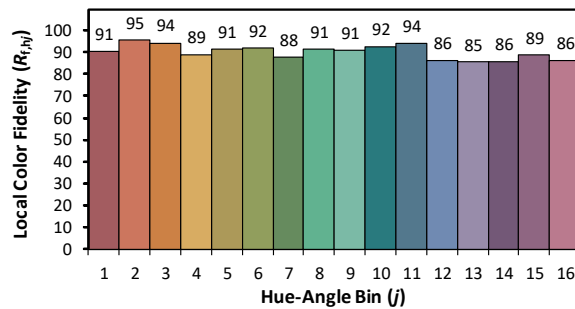
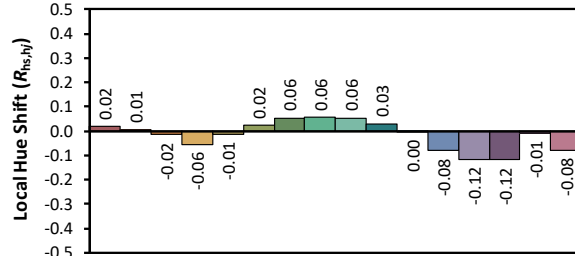
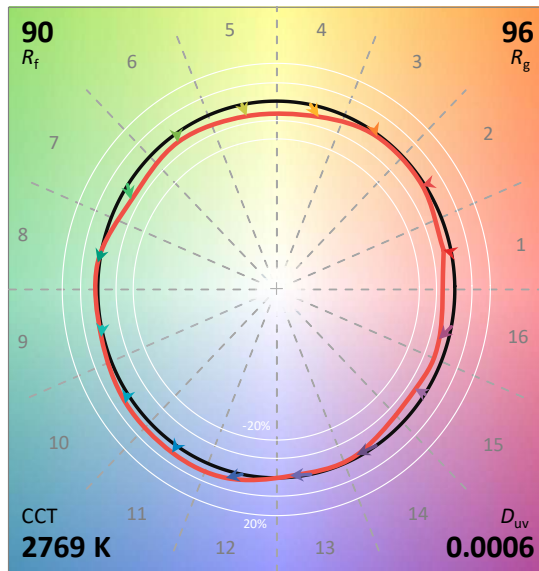
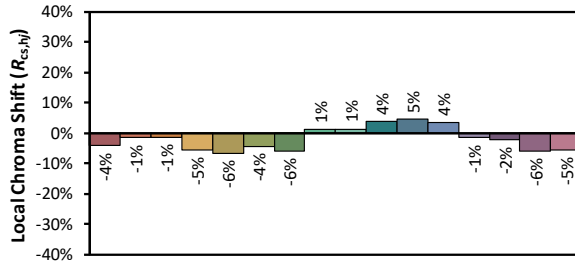
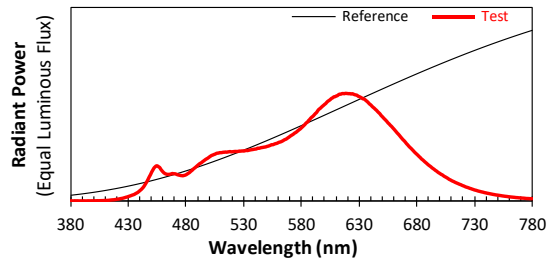
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/8/22

Model: V1-24B @10W2700K



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

x 0.4553
 y 0.4111
 u' 0.2593
 v' 0.5269

CIE 13.3-1995
(CRI)

R_a 93
 R_g 64

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	3.10E-06	447	2.05E-04	514	4.54E-04	581	6.90E-04	648	8.08E-04	715	1.65E-04
381	1.70E-06	448	2.26E-04	515	4.53E-04	582	7.01E-04	649	7.93E-04	716	1.60E-04
382	1.00E-06	449	2.46E-04	516	4.55E-04	583	7.12E-04	650	7.83E-04	717	1.56E-04
383	2.50E-06	450	2.69E-04	517	4.57E-04	584	7.24E-04	651	7.71E-04	718	1.52E-04
384	1.80E-06	451	2.88E-04	518	4.59E-04	585	7.31E-04	652	7.60E-04	719	1.47E-04
385	1.90E-06	452	3.06E-04	519	4.56E-04	586	7.46E-04	653	7.49E-04	720	1.42E-04
386	1.90E-06	453	3.17E-04	520	4.57E-04	587	7.56E-04	654	7.38E-04	721	1.38E-04
387	1.20E-06	454	3.26E-04	521	4.58E-04	588	7.70E-04	655	7.24E-04	722	1.33E-04
388	1.30E-06	455	3.25E-04	522	4.60E-04	589	7.79E-04	656	7.14E-04	723	1.29E-04
389	1.10E-06	456	3.18E-04	523	4.60E-04	590	7.88E-04	657	7.02E-04	724	1.26E-04
390	1.40E-06	457	3.10E-04	524	4.59E-04	591	8.00E-04	658	6.92E-04	725	1.22E-04
391	1.70E-06	458	2.93E-04	525	4.61E-04	592	8.12E-04	659	6.80E-04	726	1.18E-04
392	1.50E-06	459	2.80E-04	526	4.63E-04	593	8.21E-04	660	6.68E-04	727	1.15E-04
393	1.00E-06	460	2.68E-04	527	4.63E-04	594	8.37E-04	661	6.56E-04	728	1.10E-04
394	1.40E-06	461	2.59E-04	528	4.64E-04	595	8.50E-04	662	6.43E-04	729	1.07E-04
395	2.10E-06	462	2.53E-04	529	4.64E-04	596	8.58E-04	663	6.30E-04	730	1.03E-04
396	1.70E-06	463	2.49E-04	530	4.64E-04	597	8.68E-04	664	6.19E-04	731	1.00E-04
397	1.60E-06	464	2.47E-04	531	4.67E-04	598	8.78E-04	665	6.07E-04	732	9.72E-05
398	2.20E-06	465	2.48E-04	532	4.69E-04	599	8.87E-04	666	5.93E-04	733	9.36E-05
399	1.90E-06	466	2.49E-04	533	4.68E-04	600	8.97E-04	667	5.81E-04	734	9.07E-05
400	2.70E-06	467	2.52E-04	534	4.71E-04	601	9.05E-04	668	5.68E-04	735	8.82E-05
401	2.20E-06	468	2.55E-04	535	4.73E-04	602	9.17E-04	669	5.59E-04	736	8.52E-05
402	2.60E-06	469	2.53E-04	536	4.75E-04	603	9.27E-04	670	5.46E-04	737	8.32E-05
403	3.00E-06	470	2.53E-04	537	4.77E-04	604	9.34E-04	671	5.32E-04	738	8.02E-05
404	2.60E-06	471	2.50E-04	538	4.78E-04	605	9.42E-04	672	5.21E-04	739	7.74E-05
405	3.00E-06	472	2.46E-04	539	4.81E-04	606	9.52E-04	673	5.08E-04	740	7.52E-05
406	3.80E-06	473	2.42E-04	540	4.82E-04	607	9.57E-04	674	4.98E-04	741	7.27E-05
407	4.00E-06	474	2.40E-04	541	4.84E-04	608	9.66E-04	675	4.88E-04	742	7.07E-05
408	4.20E-06	475	2.37E-04	542	4.90E-04	609	9.68E-04	676	4.76E-04	743	6.85E-05
409	5.20E-06	476	2.36E-04	543	4.89E-04	610	9.74E-04	677	4.65E-04	744	6.63E-05
410	5.30E-06	477	2.35E-04	544	4.92E-04	611	9.77E-04	678	4.53E-04	745	6.42E-05
411	5.80E-06	478	2.37E-04	545	4.95E-04	612	9.86E-04	679	4.43E-04	746	6.18E-05
412	6.20E-06	479	2.40E-04	546	4.97E-04	613	9.91E-04	680	4.33E-04	747	6.01E-05
413	7.40E-06	480	2.45E-04	547	4.99E-04	614	9.91E-04	681	4.23E-04	748	5.79E-05
414	8.80E-06	481	2.52E-04	548	5.01E-04	615	9.96E-04	682	4.12E-04	749	5.62E-05
415	9.80E-06	482	2.59E-04	549	5.03E-04	616	9.97E-04	683	4.02E-04	750	5.48E-05
416	1.12E-05	483	2.66E-04	550	5.07E-04	617	9.96E-04	684	3.90E-04	751	5.31E-05
417	1.15E-05	484	2.77E-04	551	5.09E-04	618	9.98E-04	685	3.82E-04	752	5.15E-05
418	1.33E-05	485	2.85E-04	552	5.13E-04	619	9.98E-04	686	3.73E-04	753	4.99E-05
419	1.49E-05	486	2.96E-04	553	5.17E-04	620	9.97E-04	687	3.63E-04	754	4.79E-05
420	1.68E-05	487	3.04E-04	554	5.23E-04	621	9.96E-04	688	3.54E-04	755	4.66E-05
421	1.82E-05	488	3.13E-04	555	5.22E-04	622	9.96E-04	689	3.44E-04	756	4.49E-05
422	2.00E-05	489	3.23E-04	556	5.26E-04	623	9.93E-04	690	3.35E-04	757	4.36E-05
423	2.26E-05	490	3.32E-04	557	5.31E-04	624	9.95E-04	691	3.27E-04	758	4.25E-05
424	2.43E-05	491	3.41E-04	558	5.34E-04	625	9.91E-04	692	3.19E-04	759	4.08E-05
425	2.67E-05	492	3.49E-04	559	5.37E-04	626	9.86E-04	693	3.09E-04	760	3.96E-05
426	2.96E-05	493	3.54E-04	560	5.43E-04	627	9.84E-04	694	3.01E-04	761	3.83E-05
427	3.28E-05	494	3.64E-04	561	5.46E-04	628	9.81E-04	695	2.94E-04	762	3.70E-05
428	3.61E-05	495	3.72E-04	562	5.49E-04	629	9.73E-04	696	2.85E-04	763	3.61E-05
429	3.88E-05	496	3.80E-04	563	5.54E-04	630	9.68E-04	697	2.78E-04	764	3.50E-05
430	4.30E-05	497	3.88E-04	564	5.60E-04	631	9.63E-04	698	2.69E-04	765	3.39E-05
431	4.63E-05	498	3.94E-04	565	5.67E-04	632	9.57E-04	699	2.62E-04	766	3.22E-05
432	5.04E-05	499	4.00E-04	566	5.72E-04	633	9.49E-04	700	2.56E-04	767	3.18E-05
433	5.47E-05	500	4.09E-04	567	5.77E-04	634	9.47E-04	701	2.48E-04	768	3.04E-05
434	5.81E-05	501	4.16E-04	568	5.85E-04	635	9.40E-04	702	2.43E-04	769	2.95E-05
435	6.24E-05	502	4.23E-04	569	5.92E-04	636	9.30E-04	703	2.35E-04	770	2.85E-05
436	6.88E-05	503	4.27E-04	570	6.01E-04	637	9.22E-04	704	2.27E-04	771	2.77E-05
437	7.47E-05	504	4.32E-04	571	6.08E-04	638	9.11E-04	705	2.22E-04	772	2.72E-05
438	8.08E-05	505	4.35E-04	572	6.14E-04	639	8.99E-04	706	2.16E-04	773	2.64E-05
439	8.97E-05	506	4.41E-04	573	6.21E-04	640	8.92E-04	707	2.09E-04	774	2.52E-05
440	9.90E-05	507	4.44E-04	574	6.30E-04	641	8.80E-04	708	2.01E-04	775	2.38E-05
441	1.08E-04	508	4.45E-04	575	6.36E-04	642	8.70E-04	709	1.96E-04	776	2.36E-05
442	1.19E-04	509	4.49E-04	576	6.45E-04	643	8.61E-04	710	1.90E-04	777	2.30E-05
443	1.32E-04	510	4.49E-04	577	6.54E-04	644	8.50E-04	711	1.85E-04	778	2.22E-05
444	1.48E-04	511	4.50E-04	578	6.62E-04	645	8.41E-04	712	1.80E-04	779	2.22E-05
445	1.66E-04	512	4.52E-04	579	6.70E-04	646	8.29E-04	713	1.74E-04	780	2.22E-05
446	1.84E-04	513	4.53E-04	580	6.81E-04	647	8.19E-04	714	1.70E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	V1-24B @10W2700K	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	0.045	10.8	0.859
NON-WORST CASE	120.0	60	0.087	10.4	0.991

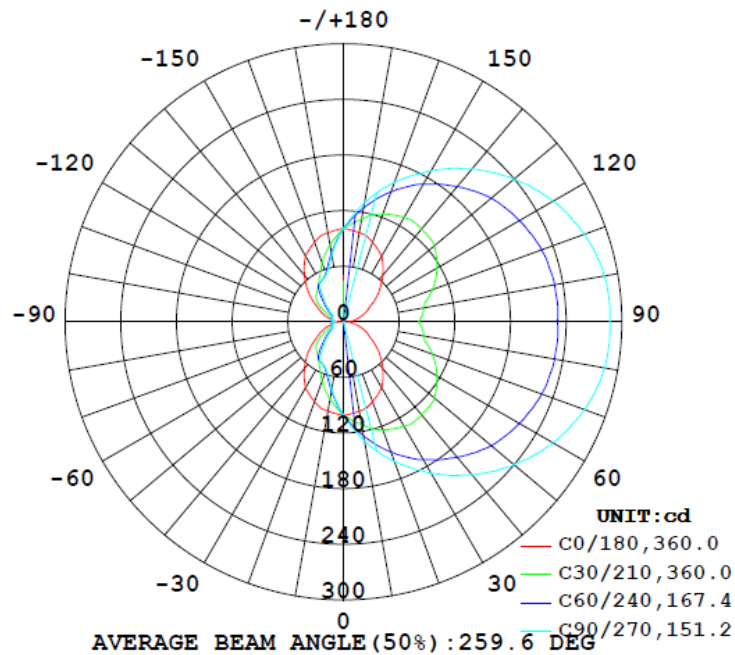
Test Result

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°)	
1157	86.8	154.6	180.0	96.9	107.1	26.5%	B0-U3-G1

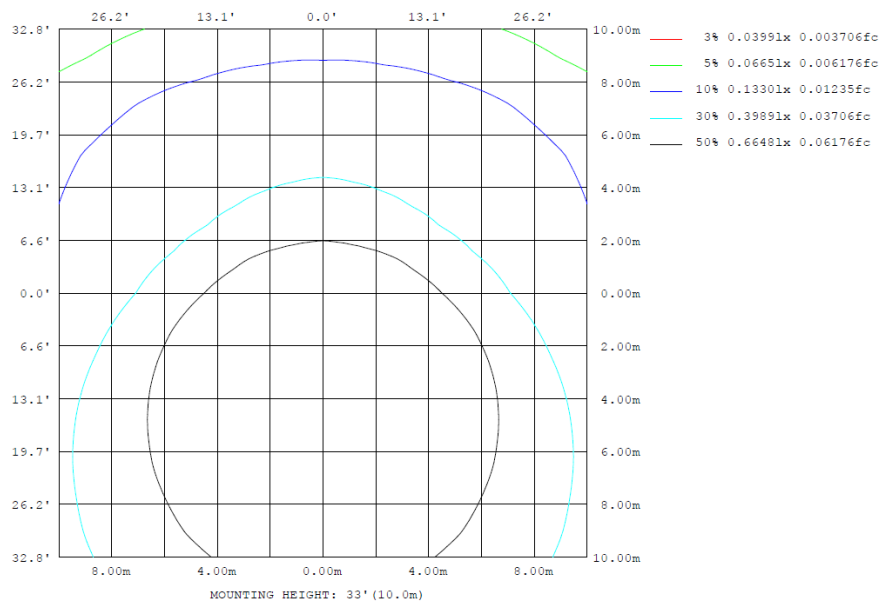
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

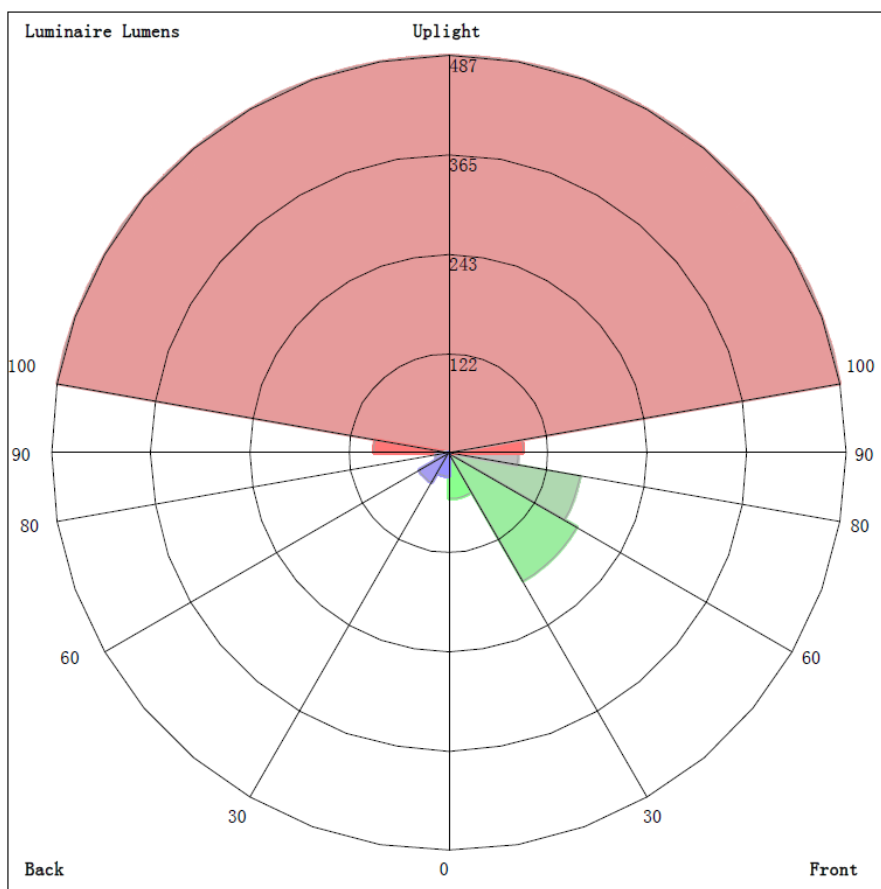
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zone	φ total	%lum, lamp
10	97.83	119.4	130.3	119.4	97.83	79.18	73.47	79.18	0- 10	9.532	9.532	0.82,0.82
20	91.64	138.8	160.1	138.8	91.64	60.70	54.55	60.70	10- 20	28.19	37.73	3.26,3.26
30	82.32	152.3	188.3	152.3	82.32	49.49	50.26	49.49	20- 30	46.24	83.97	7.26,7.26
40	65.80	164.1	215.4	164.1	65.80	45.39	33.69	45.39	30- 40	63.19	147.2	12.7,12.7
50	49.30	170.3	239.6	170.3	49.30	30.06	20.97	30.06	40- 50	75.83	223.0	19.3,19.3
60	32.82	172.7	260.6	172.7	32.82	18.78	13.17	18.78	50- 60	84.03	307.0	26.5,26.5
70	22.28	171.2	276.9	171.2	22.28	13.48	12.73	13.48	60- 70	88.78	395.8	34.2,34.2
80	12.13	166.3	285.5	166.3	12.13	12.92	12.61	12.92	70- 80	90.99	486.8	42.1,42.1
90	2.360	162.4	287.2	162.4	2.360	13.34	12.80	13.34	80- 90	91.60	578.4	50,50
100	12.13	166.3	285.5	166.3	12.13	12.92	12.61	12.92	90-100	91.60	670.0	57.9,57.9
110	22.28	171.2	276.9	171.2	22.28	13.48	12.73	13.48	100-110	90.99	761.0	65.8,65.8
120	32.82	172.7	260.6	172.7	32.82	18.78	13.17	18.78	110-120	88.78	849.8	73.5,73.5
130	49.30	170.3	239.6	170.3	49.30	30.06	20.97	30.06	120-130	84.03	933.8	80.7,80.7
140	65.80	164.1	215.4	164.1	65.80	45.39	33.69	45.39	130-140	75.83	1010	87.3,87.3
150	82.32	152.3	188.3	152.3	82.32	49.49	50.26	49.49	140-150	63.19	1073	92.7,92.7
160	91.64	138.8	160.1	138.8	91.64	60.70	54.55	60.70	150-160	46.24	1119	96.7,96.7
170	97.83	119.4	130.3	119.4	97.83	79.18	73.47	79.18	160-170	28.19	1147	99.2,99.2
180	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	170-180	9.532	1157	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	9.53	0-10	9.53	0.83%
10-20	28.19	0-20	37.72	3.29%
20-30	46.24	0-30	83.96	7.32%
30-40	63.19	0-40	147.15	12.83%
40-50	75.83	0-50	222.98	19.44%
50-60	84.03	0-60	307.01	26.76%
60-70	88.78	0-70	395.79	34.50%
70-80	90.99	0-80	486.78	42.43%
80-90	91.60	0-90	578.38	50.42%
90-100	91.60	0-100	669.98	58.40%
100-110	90.99	0-110	760.97	66.33%
110-120	88.78	0-120	849.75	74.07%
120-130	84.03	0-130	933.78	81.39%
130-140	75.83	0-140	1009.61	88.00%
140-150	63.19	0-150	1072.80	93.51%
150-160	46.24	0-160	1119.04	97.54%
160-170	28.19	0-170	1147.23	100.00%
170-180	9.53	0-180	1156.76	100.83%

4.2 Goniophotometer Test

LCS/BUG

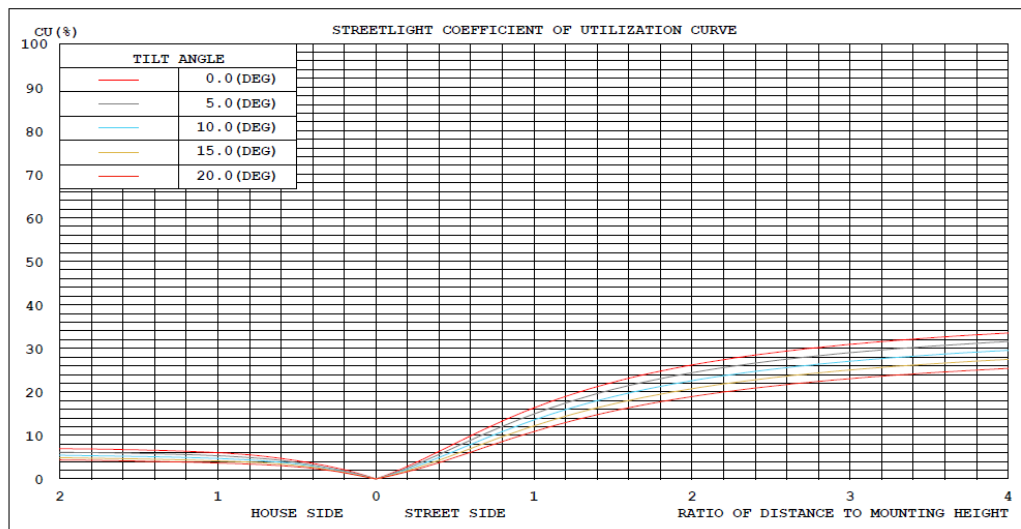


LUMINAIRE CLASSIFICATION SYSTEM (LCS)

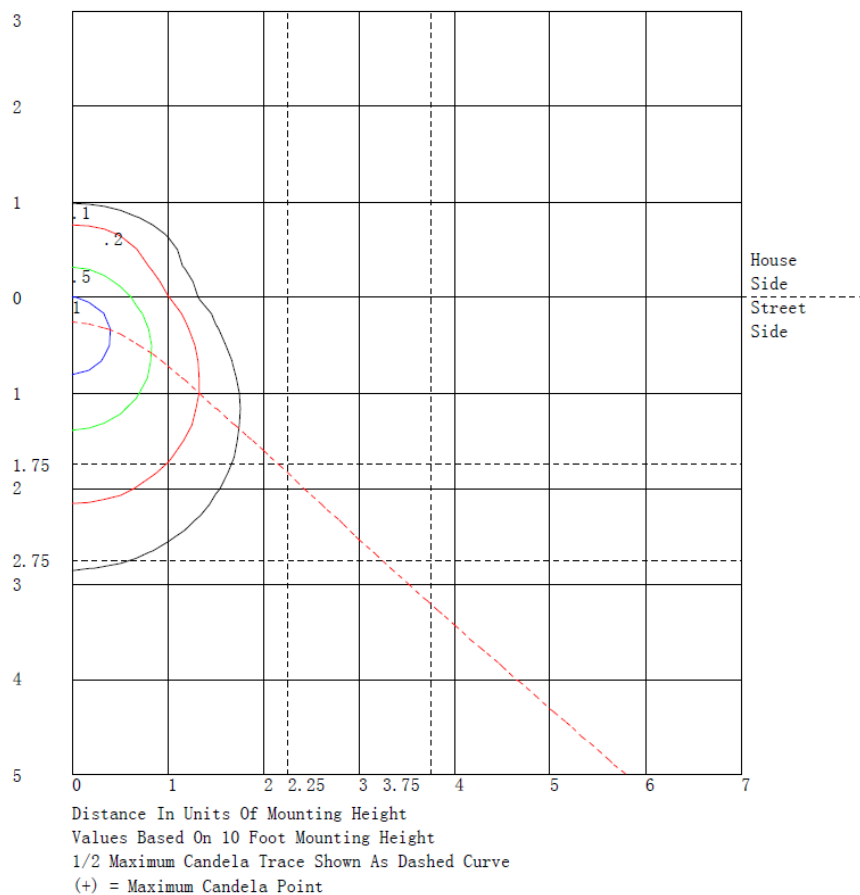
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	55.8	N.A.	4.8
FM - Front-Medium (30-60)	181.4	N.A.	15.7
FH - Front-High (60-80)	163.7	N.A.	14.2
FVH - Front-Very High (80-90)	85.2	N.A.	7.4
BL - Back-Low (0-30)	28.1	N.A.	2.4
BM - Back-Medium (30-60)	41.6	N.A.	3.6
BH - Back-High (60-80)	16.1	N.A.	1.4
BVH - Back-Very High (80-90)	6.4	N.A.	0.6
UL - Uplight-Low (90-100)	91.6	N.A.	7.9
UH - Uplight-High (100-180)	486.8	N.A.	42.1
Total	1156.7	N.A.	100.0
BUG Rating	B0-U3-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	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
5	99.4	103	107	110	112	114	115	114	112	110	107	103	99.4	95.8	92.6	89.9	88.0	86.9	86.8
10	97.8	105	113	119	125	129	130	129	125	119	113	105	97.8	90.7	84.3	79.2	75.5	73.6	73.5
15	96.3	108	119	129	138	143	146	143	138	129	119	108	96.3	85.7	76.4	69.3	64.5	62.1	62.0
20	91.6	107	124	139	149	157	160	157	149	139	124	107	91.6	78.0	67.8	60.7	56.3	54.6	54.6
25	87.0	107	127	146	161	170	174	170	161	146	127	107	87.0	70.5	59.3	53.7	51.7	51.1	51.3
30	82.3	106	130	152	172	184	188	184	172	152	130	106	82.3	63.3	52.7	49.5	49.7	50.0	50.3
35	74.1	102	132	159	182	196	202	196	182	159	132	102	74.1	55.7	47.9	47.4	47.6	44.2	43.0
40	65.8	97.2	131	164	191	209	215	209	191	164	131	97.2	65.8	48.6	44.3	45.4	39.2	34.9	33.7
45	57.5	92.4	130	167	200	221	228	221	200	167	130	92.4	57.5	42.5	41.7	38.3	31.0	27.8	26.6
50	49.3	84.1	128	170	208	231	240	231	208	170	128	84.1	49.3	37.9	38.6	30.1	24.6	21.8	21.0
55	41.1	74.3	122	173	214	241	250	241	214	173	122	74.3	41.1	33.8	32.3	23.5	19.5	17.3	16.9
60	32.8	64.1	116	173	219	250	261	250	219	173	116	64.1	32.8	30.0	24.8	18.8	15.3	13.6	13.2
65	27.6	56.1	110	172	224	258	269	258	224	172	110	56.1	27.6	25.1	19.0	15.1	13.5	13.1	12.8
70	22.3	48.0	102	171	227	263	277	263	227	171	102	48.0	22.3	19.5	15.7	13.5	13.4	13.0	12.7
75	17.0	39.4	93.2	169	229	268	282	268	229	169	93.2	39.4	17.0	13.8	12.8	13.2	13.3	13.1	12.7
80	12.1	37.3	88.2	166	231	272	286	272	231	166	88.2	37.3	12.1	12.4	12.0	12.9	13.0	12.7	12.6
85	7.24	35.5	85.1	165	231	273	287	273	231	165	85.1	35.5	7.24	11.6	12.2	13.1	13.0	11.5	10.8
90	2.36	33.5	80.7	162	230	273	287	273	230	162	80.7	33.5	2.36	10.9	12.5	13.3	13.4	11.4	12.8
95	7.24	35.5	85.1	165	231	273	287	273	231	165	85.1	35.5	7.24	11.6	12.2	13.1	13.0	11.5	10.8
100	12.1	37.3	88.2	166	231	272	286	272	231	166	88.2	37.3	12.1	12.4	12.0	12.9	13.0	12.7	12.6
105	17.0	39.4	93.2	169	229	268	282	268	229	169	93.2	39.4	17.0	13.8	12.8	13.2	13.3	13.1	12.7
110	22.3	48.0	102	171	227	263	277	263	227	171	102	48.0	22.3	19.5	15.7	13.5	13.4	13.0	12.7
115	27.6	56.1	110	172	224	258	269	258	224	172	110	56.1	27.6	25.1	19.0	15.1	13.5	13.1	12.8
120	32.8	64.1	116	173	219	250	261	250	219	173	116	64.1	32.8	30.0	24.8	18.8	15.3	13.6	13.2
125	41.1	74.3	122	173	214	241	250	241	214	173	122	74.3	41.1	33.8	32.3	23.5	19.5	17.3	16.9
130	49.3	84.1	128	170	208	231	240	231	208	170	128	84.1	49.3	37.9	38.6	30.1	24.6	21.8	21.0
135	57.5	92.4	130	167	200	221	228	221	200	167	130	92.4	57.5	42.5	41.7	38.3	31.0	27.8	26.6
140	65.8	97.2	131	164	191	209	215	209	191	164	131	97.2	65.8	48.6	44.3	45.4	39.2	34.9	33.7
145	74.1	102	132	159	182	196	202	196	182	159	132	102	74.1	55.7	47.9	47.4	47.6	44.2	43.0
150	82.3	106	130	152	172	184	188	184	172	152	130	106	82.3	63.3	52.7	49.5	49.7	50.0	50.3
155	87.0	107	127	146	161	170	174	170	161	146	127	107	87.0	70.5	59.3	53.7	51.7	51.1	51.3
160	91.6	107	124	139	149	157	160	157	149	139	124	107	91.6	78.0	67.8	60.7	56.3	54.6	54.6
165	96.3	108	119	129	138	143	146	143	138	129	119	108	96.3	85.7	76.4	69.3	64.5	62.1	62.0
170	97.8	105	113	119	125	129	130	129	125	119	113	105	97.8	90.7	84.3	79.2	75.5	73.6	73.5
175	99.4	103	107	110	112	114	115	114	112	110	107	103	99.4	95.8	92.6	89.9	88.0	86.9	86.8
180	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	101	101	101	101	101														
5	86.9	88.0	89.9	92.6	95.8														
10	73.6	75.5	79.2	84.3	90.7														
15	62.1	64.5	69.3	76.4	85.7														
20	54.6	56.3	60.7	67.8	78.0														
25	51.1	51.7	53.7	59.3	70.5														
30	50.0	49.7	49.5	52.7	63.3														
35	44.2	47.6	47.4	47.9	55.7														
40	34.9	39.2	45.4	44.3	48.6														
45	27.8	31.0	38.3	41.7	42.5														
50	21.8	24.6	30.1	38.6	37.9														
55	17.3	19.5	23.5	32.3	33.8														
60	13.6	15.3	18.8	24.8	30.0														
65	13.1	13.5	15.1	19.0	25.1														
70	13.0	13.4	13.5	15.7	19.5														
75	13.1	13.3	13.2	12.8	13.8														
80	12.7	13.0	12.9	12.0	12.4														
85	11.5	13.0	13.1	12.2	11.6														
90	11.4	13.4	13.3	12.5	10.9														
95	11.5	13.0	13.1	12.2	11.6														
100	12.7	13.0	12.9	12.0	12.4														
105	13.1	13.3	13.2	12.8	13.8														
110	13.0	13.4	13.5	15.7	19.5														
115	13.1	13.5	15.1	19.0	25.1														
120	13.6	15.3	18.8	24.8	30.0														
125	17.3	19.5	23.5	32.3	33.8														
130	21.8	24.6	30.1	38.6	37.9														
135	27.8	31.0	38.3	41.7	42.5														
140	34.9	39.2	45.4	44.3	48.6														
145	44.2	47.6	47.4	47.9	55.7														
150	50.0	49.7	49.5	52.7	63.3														
155	51.1	51.7	53.7	59.3	70.5														
160	54.6	56.3	60.7	67.8	78.0														
165	62.1	64.5	69.3	76.4	85.7														
170	73.6	75.5	79.2	84.3	90.7														
175	86.9	88.0	89.9	92.6	95.8														
180	101	101	101	101	101														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	V1-24B @10W2700K	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	6.66
277.0	60	0.045	10.8	0.859	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*****