

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		2075
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	103.8
			N/A	N/A	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		20.0
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	6.22
				277V	12.66
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	0.996
				277V	0.972
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	2725±145	2780
			4 steps	2725±83	
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		63
Minimum Rf (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥70		91
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		26.4%
Backlight, Uplight and Glare (BUG) Ratings (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019 IES TM-15-11	N/A		B0-U4-G2
Input Voltage (V)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Cast		120.0
(Goniophotometer – Section 4.2)			Non-Worst Case		277.0
Input Current (A)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		0.167
(Goniophotometer – Section 4.2)			Non-Worst Case		0.074
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		20.0
(Goniophotometer – Section 4.2)			Non-Worst Case		19.8

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-07-29	V1-24B @20W2700K	-	250728008-S1
2	Goniophotometer Test	2025-07-29	V1-24B @20W2700K	-	250728008-S1
3	THD and PF Test	2025-07-29	V1-24B @20W2700K	-	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 @20W2700K, 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 @20W2700K	Sample ID	250728008-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

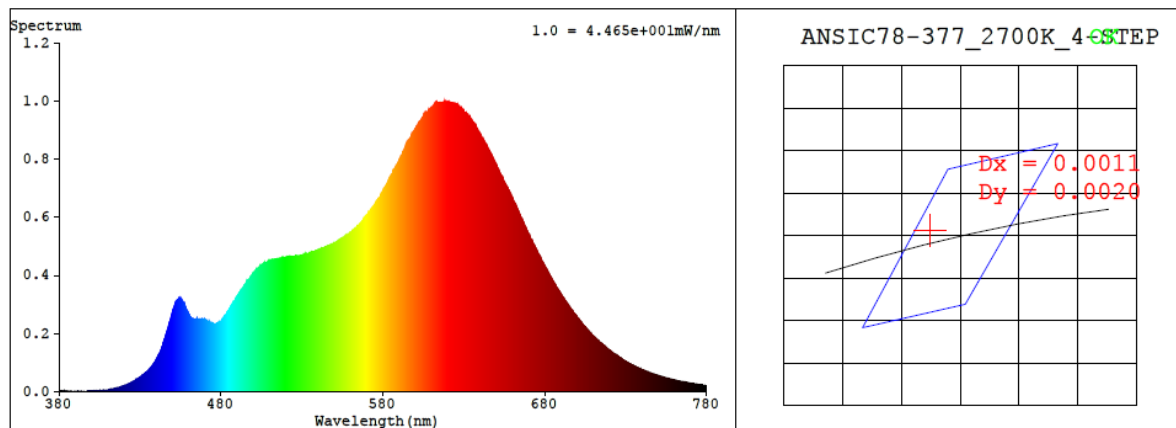
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25\pm 1^{\circ}\text{C}$.</p> <p>The sample measurements 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	0.167	20.0	0.996
277.0	60	0.074	19.8	0.972

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
2780	93.5	63	0.0006	2.6	91	96	-4%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4545$ $y = 0.4110$ / $u' = 0.2588$ $v' = 0.5267$ ($duv=6.38e-04$)

CCT= 2780K Prcp WL: $L_d=583.6nm$ Purity=59.8%

Peak WL: $L_p=618nm$ FWHM: $=128.3nm$ Ratio:R=26.7% G=70.2% B=3.2%

Render Index: $R_a = 93.5$ AvgR = 91.7 TM30:Rf=91 Rg=97

EEL: 0.13697 A+

R1 =98 R2 =98 R3 =93 R4 =97 R5 =98 R6 =92 R7 =90

R8 =82 R9 =63 R10=94 R11=95 R12=88 R13=99 R14=97 R15=91

4.1 Integrating Sphere Test

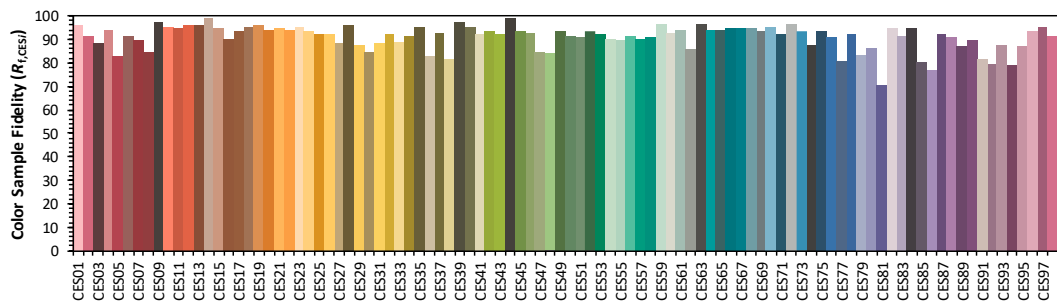
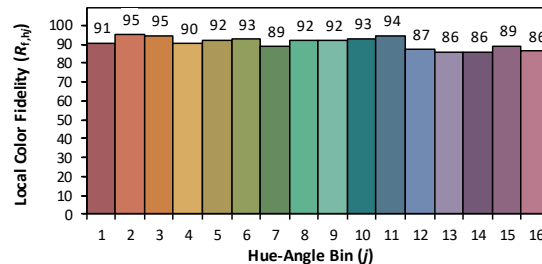
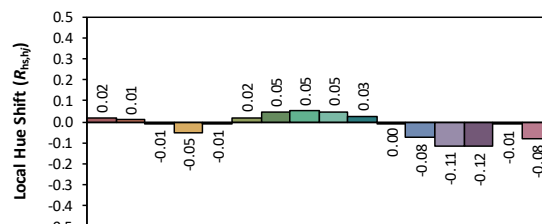
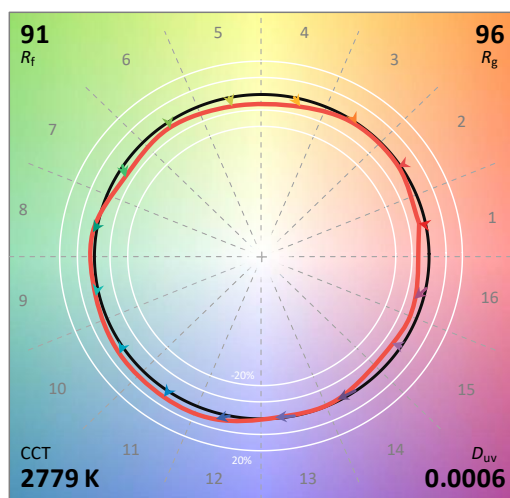
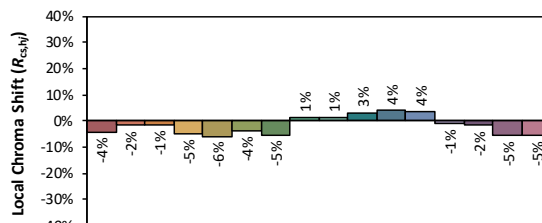
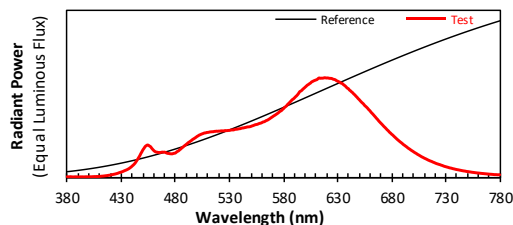
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc

Date: 2025/8/22

Model: V1-24B @20W2700K



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

x 0.4545
 y 0.4110
 u' 0.2589
 v' 0.5267

CIE 13.3-1995
(CRI)
 R_a 93
 R_g 63

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	3.20E-06	447	2.13E-04	514	4.56E-04	581	7.00E-04	648	8.03E-04	715	1.65E-04
381	1.70E-06	448	2.35E-04	515	4.56E-04	582	7.08E-04	649	7.90E-04	716	1.60E-04
382	2.00E-06	449	2.54E-04	516	4.59E-04	583	7.19E-04	650	7.80E-04	717	1.57E-04
383	3.00E-06	450	2.74E-04	517	4.59E-04	584	7.32E-04	651	7.67E-04	718	1.51E-04
384	1.40E-06	451	2.89E-04	518	4.61E-04	585	7.42E-04	652	7.55E-04	719	1.47E-04
385	1.00E-06	452	3.06E-04	519	4.60E-04	586	7.54E-04	653	7.45E-04	720	1.42E-04
386	6.00E-07	453	3.15E-04	520	4.62E-04	587	7.65E-04	654	7.35E-04	721	1.37E-04
387	1.90E-06	454	3.21E-04	521	4.62E-04	588	7.77E-04	655	7.21E-04	722	1.33E-04
388	1.80E-06	455	3.19E-04	522	4.64E-04	589	7.84E-04	656	7.11E-04	723	1.30E-04
389	1.30E-06	456	3.12E-04	523	4.64E-04	590	7.94E-04	657	7.01E-04	724	1.26E-04
390	6.00E-07	457	3.05E-04	524	4.64E-04	591	8.06E-04	658	6.90E-04	725	1.23E-04
391	6.00E-07	458	2.91E-04	525	4.64E-04	592	8.16E-04	659	6.76E-04	726	1.19E-04
392	1.60E-06	459	2.78E-04	526	4.67E-04	593	8.27E-04	660	6.66E-04	727	1.16E-04
393	1.50E-06	460	2.66E-04	527	4.66E-04	594	8.42E-04	661	6.52E-04	728	1.11E-04
394	1.80E-06	461	2.57E-04	528	4.67E-04	595	8.58E-04	662	6.41E-04	729	1.07E-04
395	1.00E-06	462	2.52E-04	529	4.69E-04	596	8.65E-04	663	6.29E-04	730	1.04E-04
396	1.40E-06	463	2.50E-04	530	4.69E-04	597	8.73E-04	664	6.16E-04	731	1.01E-04
397	2.10E-06	464	2.47E-04	531	4.71E-04	598	8.84E-04	665	6.04E-04	732	9.79E-05
398	2.30E-06	465	2.47E-04	532	4.74E-04	599	8.93E-04	666	5.91E-04	733	9.45E-05
399	2.00E-06	466	2.46E-04	533	4.74E-04	600	9.03E-04	667	5.80E-04	734	9.12E-05
400	2.50E-06	467	2.49E-04	534	4.74E-04	601	9.13E-04	668	5.66E-04	735	8.95E-05
401	2.40E-06	468	2.50E-04	535	4.79E-04	602	9.24E-04	669	5.54E-04	736	8.62E-05
402	2.10E-06	469	2.49E-04	536	4.80E-04	603	9.30E-04	670	5.42E-04	737	8.31E-05
403	3.10E-06	470	2.50E-04	537	4.81E-04	604	9.38E-04	671	5.31E-04	738	8.10E-05
404	3.30E-06	471	2.45E-04	538	4.83E-04	605	9.45E-04	672	5.20E-04	739	7.80E-05
405	4.20E-06	472	2.41E-04	539	4.86E-04	606	9.56E-04	673	5.08E-04	740	7.56E-05
406	4.00E-06	473	2.38E-04	540	4.87E-04	607	9.62E-04	674	4.97E-04	741	7.34E-05
407	4.80E-06	474	2.37E-04	541	4.90E-04	608	9.68E-04	675	4.86E-04	742	7.15E-05
408	4.90E-06	475	2.34E-04	542	4.93E-04	609	9.72E-04	676	4.74E-04	743	6.90E-05
409	5.20E-06	476	2.34E-04	543	4.94E-04	610	9.76E-04	677	4.64E-04	744	6.70E-05
410	5.80E-06	477	2.33E-04	544	4.97E-04	611	9.80E-04	678	4.51E-04	745	6.45E-05
411	7.20E-06	478	2.36E-04	545	4.99E-04	612	9.90E-04	679	4.42E-04	746	6.25E-05
412	8.30E-06	479	2.39E-04	546	5.02E-04	613	9.96E-04	680	4.31E-04	747	6.07E-05
413	9.00E-06	480	2.42E-04	547	5.04E-04	614	9.93E-04	681	4.23E-04	748	5.92E-05
414	1.04E-05	481	2.51E-04	548	5.05E-04	615	9.94E-04	682	4.12E-04	749	5.67E-05
415	1.18E-05	482	2.58E-04	549	5.06E-04	616	9.94E-04	683	4.01E-04	750	5.49E-05
416	1.32E-05	483	2.64E-04	550	5.10E-04	617	9.96E-04	684	3.91E-04	751	5.38E-05
417	1.45E-05	484	2.74E-04	551	5.14E-04	618	9.99E-04	685	3.81E-04	752	5.18E-05
418	1.65E-05	485	2.82E-04	552	5.17E-04	619	9.97E-04	686	3.71E-04	753	5.03E-05
419	1.82E-05	486	2.93E-04	553	5.22E-04	620	9.96E-04	687	3.62E-04	754	4.83E-05
420	1.97E-05	487	3.01E-04	554	5.26E-04	621	9.97E-04	688	3.53E-04	755	4.68E-05
421	2.22E-05	488	3.10E-04	555	5.28E-04	622	9.94E-04	689	3.45E-04	756	4.57E-05
422	2.47E-05	489	3.19E-04	556	5.31E-04	623	9.92E-04	690	3.36E-04	757	4.39E-05
423	2.71E-05	490	3.28E-04	557	5.36E-04	624	9.92E-04	691	3.26E-04	758	4.25E-05
424	2.94E-05	491	3.37E-04	558	5.40E-04	625	9.89E-04	692	3.19E-04	759	4.11E-05
425	3.22E-05	492	3.46E-04	559	5.42E-04	626	9.84E-04	693	3.10E-04	760	4.00E-05
426	3.53E-05	493	3.53E-04	560	5.47E-04	627	9.82E-04	694	3.03E-04	761	3.92E-05
427	3.87E-05	494	3.61E-04	561	5.53E-04	628	9.78E-04	695	2.93E-04	762	3.75E-05
428	4.33E-05	495	3.69E-04	562	5.56E-04	629	9.69E-04	696	2.86E-04	763	3.65E-05
429	4.66E-05	496	3.78E-04	563	5.61E-04	630	9.65E-04	697	2.79E-04	764	3.52E-05
430	5.03E-05	497	3.85E-04	564	5.68E-04	631	9.59E-04	698	2.70E-04	765	3.44E-05
431	5.39E-05	498	3.92E-04	565	5.71E-04	632	9.54E-04	699	2.63E-04	766	3.32E-05
432	5.86E-05	499	3.99E-04	566	5.78E-04	633	9.45E-04	700	2.56E-04	767	3.23E-05
433	6.37E-05	500	4.08E-04	567	5.85E-04	634	9.44E-04	701	2.49E-04	768	3.10E-05
434	6.79E-05	501	4.14E-04	568	5.93E-04	635	9.34E-04	702	2.42E-04	769	3.02E-05
435	7.25E-05	502	4.21E-04	569	6.00E-04	636	9.25E-04	703	2.36E-04	770	2.90E-05
436	7.82E-05	503	4.26E-04	570	6.07E-04	637	9.17E-04	704	2.28E-04	771	2.80E-05
437	8.43E-05	504	4.31E-04	571	6.15E-04	638	9.06E-04	705	2.22E-04	772	2.74E-05
438	9.25E-05	505	4.35E-04	572	6.21E-04	639	8.94E-04	706	2.16E-04	773	2.64E-05
439	1.00E-04	506	4.39E-04	573	6.29E-04	640	8.89E-04	707	2.09E-04	774	2.54E-05
440	1.10E-04	507	4.43E-04	574	6.36E-04	641	8.75E-04	708	2.03E-04	775	2.41E-05
441	1.20E-04	508	4.44E-04	575	6.44E-04	642	8.67E-04	709	1.97E-04	776	2.38E-05
442	1.31E-04	509	4.48E-04	576	6.53E-04	643	8.56E-04	710	1.91E-04	777	2.37E-05
443	1.44E-04	510	4.49E-04	577	6.62E-04	644	8.48E-04	711	1.86E-04	778	2.24E-05
444	1.61E-04	511	4.51E-04	578	6.67E-04	645	8.35E-04	712	1.81E-04	779	2.26E-05
445	1.77E-04	512	4.54E-04	579	6.79E-04	646	8.26E-04	713	1.75E-04	780	2.27E-05
446	1.95E-04	513	4.54E-04	580	6.88E-04	647	8.13E-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 @20W2700K	Sample ID	250728008-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	24.9	Humidity (%RH)	42.1

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	0.167	20.0	0.996
NON-WORST CASE	277.0	60	0.074	19.8	0.972

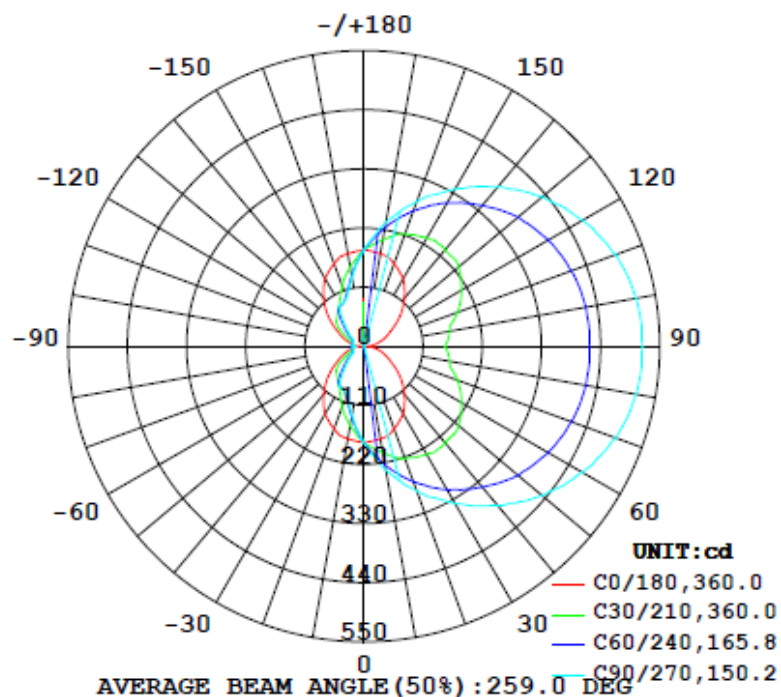
Test Result

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°)	
2075	85.3	155.5	180.0	98.5	103.8	26.4%	B0-U4-G2

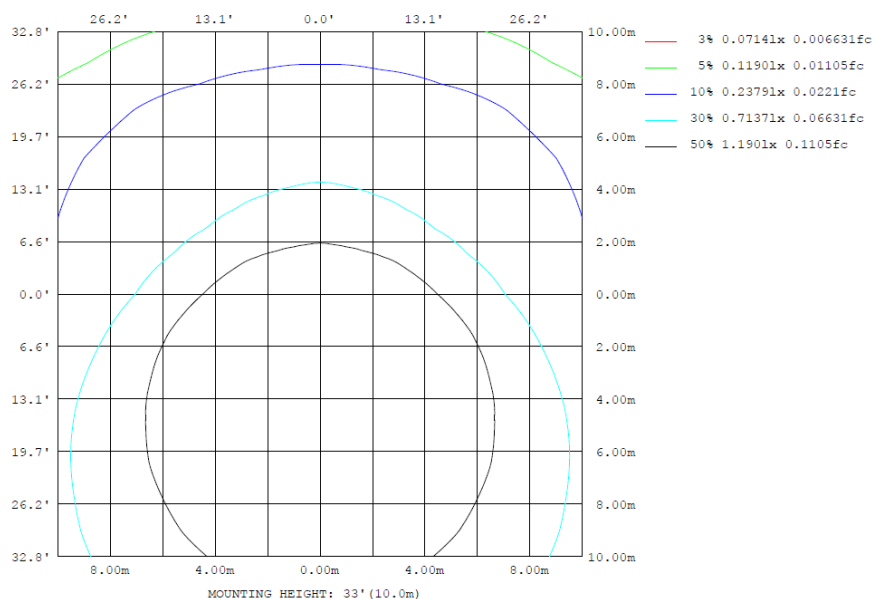
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

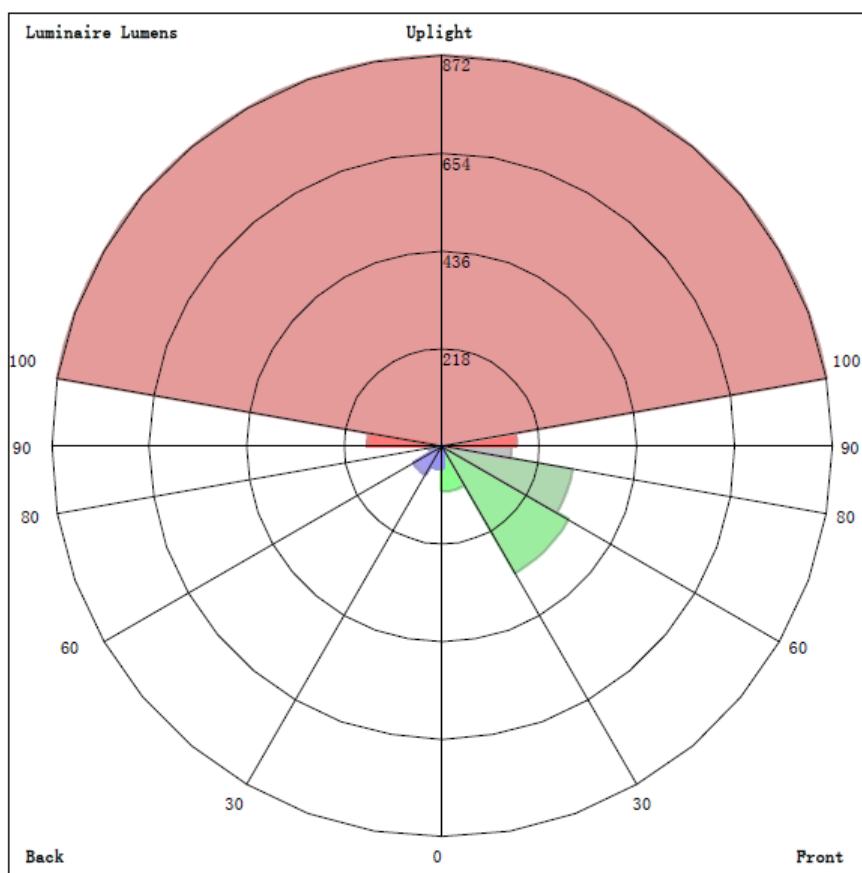
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	ϕ lum, lamp
10	174.9	214.0	233.7	214.0	174.9	140.0	130.6	140.0	0- 10	16.99	16.99	0.82,0.82
20	163.7	249.5	285.9	249.5	163.7	106.6	96.05	106.6	10- 20	50.28	67.27	3.24,3.24
30	145.8	272.9	337.8	272.9	145.8	86.14	88.86	86.14	20- 30	82.38	149.6	7.21,7.21
40	116.7	293.8	387.3	293.8	116.7	79.50	59.08	79.50	30- 40	112.7	262.3	12.6,12.6
50	87.17	306.9	432.4	306.9	87.17	52.00	36.24	52.00	40- 50	135.5	397.8	19.2,19.2
60	57.33	312.4	469.6	312.4	57.33	31.98	22.80	31.98	50- 60	150.4	548.2	26.4,26.4
70	38.23	311.2	498.1	311.2	38.23	23.36	22.07	23.36	60- 70	159.4	707.6	34.1,34.1
80	20.41	302.9	513.3	302.9	20.41	23.11	21.77	23.11	70- 80	164.0	871.6	42,42
90	3.842	297.7	517.1	297.7	3.842	24.40	22.57	24.40	80- 90	166.0	1038	50,50
100	20.41	302.9	513.3	302.9	20.41	23.11	21.77	23.11	90-100	166.0	1204	58,58
110	38.23	311.2	498.1	311.2	38.23	23.36	22.07	23.36	100-110	164.0	1368	65.9,65.9
120	57.33	312.4	469.6	312.4	57.33	31.98	22.80	31.98	110-120	159.4	1527	73.6,73.6
130	87.17	306.9	432.4	306.9	87.17	52.00	36.24	52.00	120-130	150.4	1677	80.8,80.8
140	116.7	293.8	387.3	293.8	116.7	79.50	59.08	79.50	130-140	135.5	1813	87.4,87.4
150	145.8	272.9	337.8	272.9	145.8	86.14	88.86	86.14	140-150	112.7	1925	92.8,92.8
160	163.7	249.5	285.9	249.5	163.7	106.6	96.05	106.6	150-160	82.38	2008	96.8,96.8
170	174.9	214.0	233.7	214.0	174.9	140.0	130.6	140.0	160-170	50.28	2058	99.2,99.2
180	179.5	179.5	179.5	179.5	179.5	179.5	179.5	179.5	170-180	16.99	2075	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	16.99	0-10	16.99	0.83%
10-20	50.28	0-20	67.27	3.27%
20-30	82.38	0-30	149.65	7.27%
30-40	112.67	0-40	262.32	12.75%
40-50	135.47	0-50	397.79	19.33%
50-60	150.38	0-60	548.17	26.63%
60-70	159.45	0-70	707.62	34.38%
70-80	163.98	0-80	871.60	42.35%
80-90	165.97	0-90	1037.57	50.41%
90-100	165.97	0-100	1203.54	58.48%
100-110	163.98	0-110	1367.52	66.44%
110-120	159.45	0-120	1526.97	74.19%
120-130	150.38	0-130	1677.35	81.50%
130-140	135.47	0-140	1812.82	88.08%
140-150	112.67	0-150	1925.49	93.55%
150-160	82.38	0-160	2007.87	97.56%
160-170	50.28	0-170	2058.15	100.00%
170-180	16.99	0-180	2075.14	100.83%

4.2 Goniophotometer Test

LCS/BUG

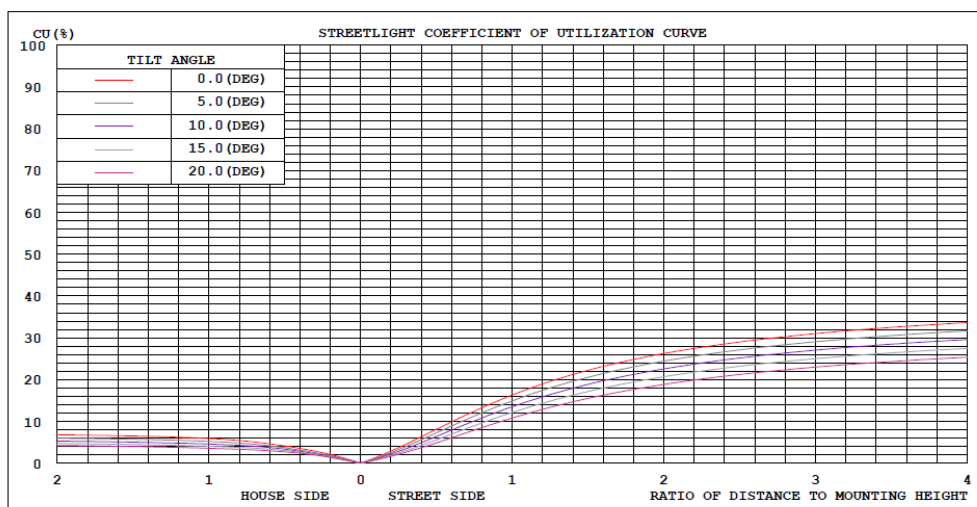


LUMINAIRE CLASSIFICATION SYSTEM (LCS)

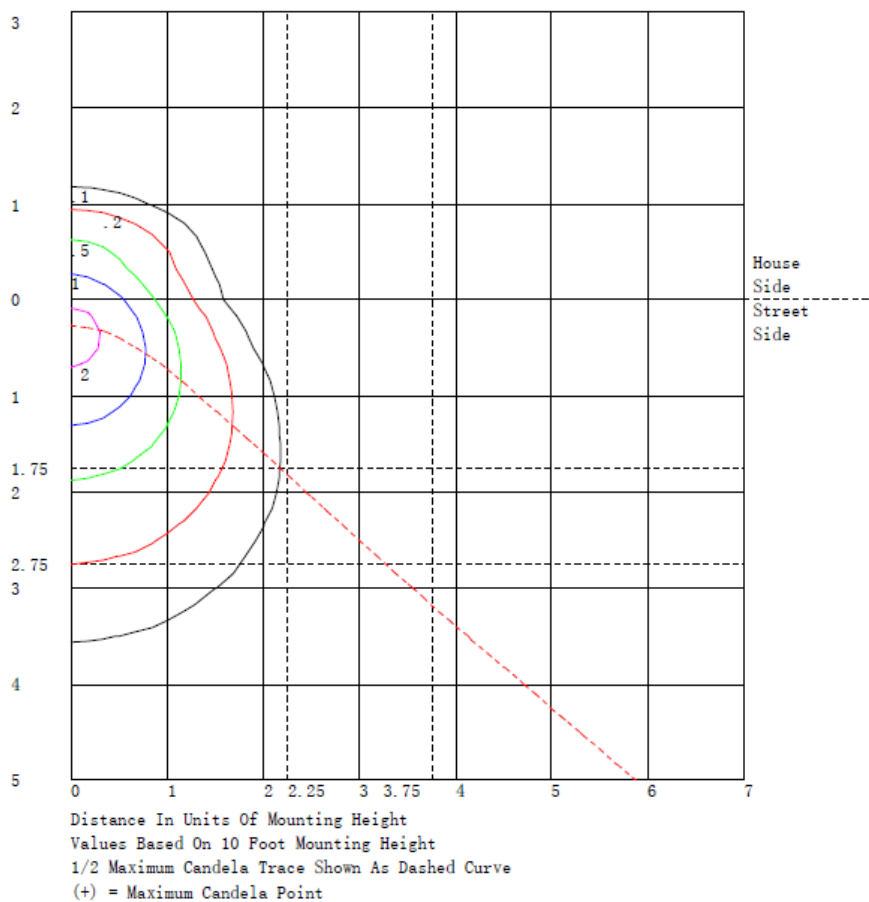
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	100.0	N.A.	4.8
FM - Front-Medium (30-60)	326.0	N.A.	15.7
FH - Front-High (60-80)	295.7	N.A.	14.3
FVH - Front-Very High (80-90)	154.6	N.A.	7.4
BL - Back-Low (0-30)	49.7	N.A.	2.4
BM - Back-Medium (30-60)	72.5	N.A.	3.5
BH - Back-High (60-80)	27.7	N.A.	1.3
BVH - Back-Very High (80-90)	11.4	N.A.	0.5
UL - Uplight-Low (90-100)	166.0	N.A.	8.0
UH - Uplight-High (100-180)	871.6	N.A.	42.0
Total	2075.2	N.A.	100.0
BUG Rating	B0-U4-G2		

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	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179
5	177	184	190	196	201	204	205	204	201	196	190	184	177	171	164	159	156	154	154
10	175	188	201	214	224	231	234	231	224	214	201	188	175	161	150	140	134	130	131
15	173	192	213	232	245	256	259	256	245	232	213	192	173	153	135	122	114	110	110
20	164	192	223	249	268	280	286	280	268	249	223	192	164	139	119	107	98.9	95.7	96.0
25	155	191	228	262	289	305	311	305	289	262	228	191	155	124	104	94.2	90.4	89.4	90.6
30	146	190	233	273	309	329	338	329	309	273	233	190	146	111	92.3	86.1	87.0	87.7	88.9
35	131	183	236	285	325	352	362	352	325	285	236	183	131	97.6	84.1	82.6	83.3	77.9	76.3
40	117	174	235	294	342	375	387	375	342	294	235	174	117	84.9	77.5	79.5	68.8	61.0	59.1
45	102	166	234	300	359	398	409	398	359	300	234	166	102	73.8	72.3	66.9	53.7	48.0	46.3
50	87.2	151	230	307	374	416	432	416	374	307	230	151	87.2	65.5	67.2	52.0	42.3	37.5	36.2
55	72.2	133	220	312	385	434	452	434	385	312	220	133	72.2	58.4	56.0	40.6	33.3	29.7	28.9
60	57.3	115	209	312	395	449	470	449	395	312	209	115	57.3	52.3	42.5	32.0	26.0	23.4	22.8
65	47.8	101	198	312	404	464	484	464	404	312	198	101	47.8	43.3	32.3	25.8	23.3	22.5	22.1
70	38.2	86.7	185	311	410	475	498	475	410	311	185	86.7	38.2	33.3	26.9	23.4	23.2	22.5	22.1
75	28.7	71.6	170	307	416	484	507	484	416	307	170	71.6	28.7	22.9	22.4	23.1	23.1	22.6	22.1
80	20.4	67.9	162	303	419	490	513	490	419	303	162	67.9	20.4	20.9	21.4	23.1	22.5	22.1	21.8
85	12.1	65.0	157	302	420	494	517	494	420	302	157	65.0	12.1	20.1	22.0	23.7	23.2	19.8	20.4
90	3.84	61.5	150	298	419	494	517	494	419	298	150	61.5	3.84	19.3	22.5	24.4	25.1	20.7	22.6
95	12.1	65.0	157	302	420	494	517	494	420	302	157	65.0	12.1	20.1	22.0	23.7	23.2	19.8	20.4
100	20.4	67.9	162	303	419	490	513	490	419	303	162	67.9	20.4	20.9	21.4	23.1	22.5	22.1	21.8
105	28.7	71.6	170	307	416	484	507	484	416	307	170	71.6	28.7	22.9	22.4	23.1	23.1	22.6	22.1
110	38.2	86.7	185	311	410	475	498	475	410	311	185	86.7	38.2	33.3	26.9	23.4	23.2	22.5	22.1
115	47.8	101	198	312	404	464	484	464	404	312	198	101	47.8	43.3	32.3	25.8	23.3	22.5	22.1
120	57.3	115	209	312	395	449	470	449	395	312	209	115	57.3	52.3	42.5	32.0	26.0	23.4	22.8
125	72.2	133	220	312	385	434	452	434	385	312	220	133	72.2	58.4	56.0	40.6	33.3	29.7	28.9
130	87.2	151	230	307	374	416	432	416	374	307	230	151	87.2	65.5	67.2	52.0	42.3	37.5	36.2
135	102	166	234	300	359	398	409	398	359	300	234	166	102	73.8	72.3	66.9	53.7	48.0	46.3
140	117	174	235	294	342	375	387	375	342	294	235	174	117	84.9	77.5	79.5	68.8	61.0	59.1
145	131	183	236	285	325	352	362	352	325	285	236	183	131	97.6	84.1	82.6	83.3	77.9	76.3
150	146	190	233	273	309	329	338	329	309	273	233	190	146	111	92.3	86.1	87.0	87.7	88.9
155	155	191	228	262	289	305	311	305	289	262	228	191	155	124	104	94.2	90.4	89.4	90.6
160	164	192	223	249	268	280	286	280	268	249	223	192	164	139	119	107	98.9	95.7	96.0
165	173	192	213	232	245	256	259	256	245	232	213	192	173	153	135	122	114	110	110
170	175	188	201	214	224	231	234	231	224	214	201	188	175	161	150	140	134	130	131
175	177	184	190	196	201	204	205	204	201	196	184	177	171	164	159	156	154	154	154
180	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	179	179	179	179	179														
5	154	156	159	164	171														
10	130	134	140	150	161														
15	110	114	122	135	153														
20	95.7	98.9	107	119	139														
25	89.4	90.4	94.2	104	124														
30	87.7	87.0	86.1	92.3	111														
35	77.9	83.3	82.6	84.1	97.6														
40	61.0	68.8	79.5	77.5	84.9														
45	48.0	53.7	66.9	72.3	73.8														
50	37.5	42.3	52.0	67.2	65.5														
55	29.7	33.3	40.6	56.0	58.4														
60	23.4	26.0	32.0	42.5	52.3														
65	22.5	23.3	25.8	32.3	43.3														
70	22.5	23.2	23.4	26.9	33.3														
75	22.6	23.1	23.1	22.4	22.9														
80	22.1	22.5	23.1	21.4	20.9														
85	19.8	23.2	23.7	22.0	20.1														
90	20.7	25.1	24.4	22.5	19.3														
95	19.8	23.2	23.7	22.0	20.1														
100	22.1	22.5	23.1	21.4	20.9														
105	22.6	23.1	23.1	22.4	22.9														
110	22.5	23.2	23.4	26.9	33.3														
115	22.5	23.3	25.8	32.3	43.3														
120	23.4	26.0	32.0	42.5	52.3														
125	29.7	33.3	40.6	56.0	58.4														
130	37.5	42.3	52.0	67.2	65.5														
135	48.0	53.7	66.9	72.3	73.8														
140	61.0	68.8	79.5	77.5	84.9														
145	77.9	83.3	82.6	84.1	97.6														
150	87.7	87.0	86.1	92.3	111														
155	89.4	90.4	94.2	104	124														
160	95.7	98.9	107	119	139														
165	110	114	122	135	153														
170	130	134	140	150	161														
175	154	156	159	164	171														
180	179	179	179	179	179														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	V1-24B @20W2700K	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	0.167	20.0	0.996	6.22
277.0	60	0.074	19.8	0.972	12.66

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	2024-08-06	2025-08-05
NTC-F01-019	Temperature & Humidity Meter	2024-10-29	2025-10-28

*****End of Report*****