

Photometric Test Report

Relevant Standards

- ☒ ANSI/IES LM-79-2019
- ☒ ANSI C82.77-2017

Prepared For

RAB Lighting Inc.

Address: 408 W 14th St New York, NY 10014

Prepared By

Dongguan New Testing Centre Co., Ltd.

Address: 3F No. 1 the 1st North Industry Road, Songshan Lake Science & Technology Park, Dongguan, Guangdong, China

Prepare by:

Alan Wang

Engineer: Alan Wang

Date: 2025-08-21

Review by:

Vincent Yuan

Technical Lead: Vincent Yuan

Issue Date: 2025-08-21

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		1281
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	117.5
			N/A	N/A	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		10.9
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002	N/A	120V	8.65
		ANSI C82-77-10:2020		277V	32.94
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002	N/A	120V	0.989
		ANSI C82-77-10:2020		277V	0.843
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	3985±275	4046
			4 steps	3985±154	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		91.7
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		83
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%		-3%
Zonal Lumen Requirement (0°-60°) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	N/A		26.7%
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		0.047
(Goniophotometer – Section 4.2)			Non-Worst Case		0.084
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		10.9
(Goniophotometer – Section 4.2)			Non-Worst Case		10.0

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-08-07	V1-24 @10W4000K	-	250728007-S1
2	Goniophotometer Test	2025-08-07	V1-24 @10W4000K	-	250728007-S1
3	THD and PF Test	2025-08-07	V1-24 @10W4000K	-	250728007-S1

Remark (If any):

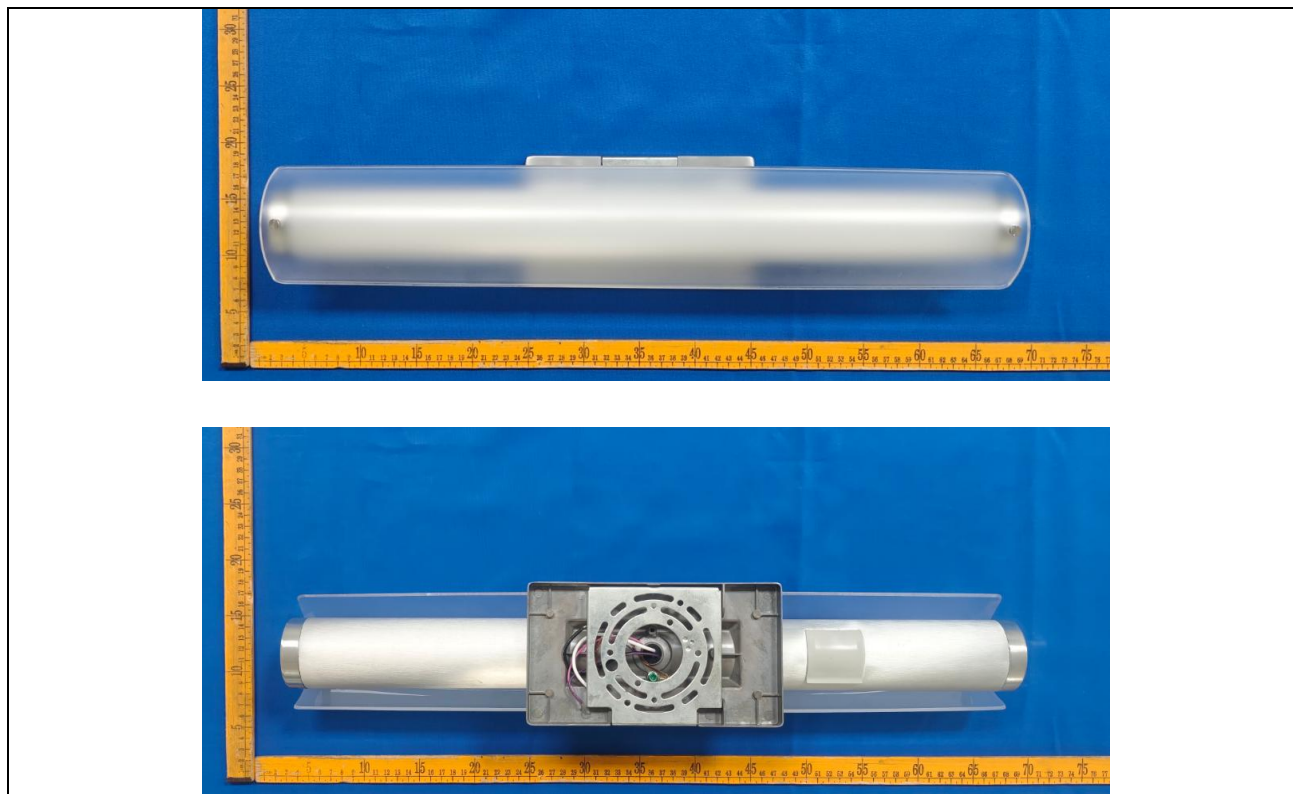
1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. V1-24 @10W4000K, 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.	V1-24 @10W4000K	Sample ID	250728007-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

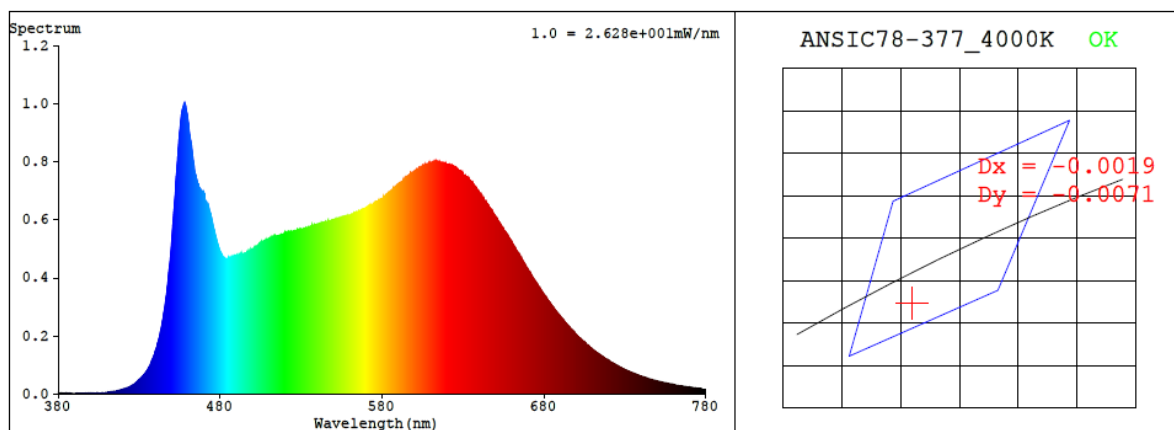
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere.</p> <p>The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ±0.2 percent under load.</p> <p>The sample was measured using 4π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780nm.</p>

Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.084	10.0	0.989
277.0	60	0.047	10.9	0.843

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4046	91.7	83	-0.0028	4.3	87	95	-3%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3766$ $y = 0.3684$ / $u' = 0.2259$ $v' = 0.4973$ ($duv = -2.80e-03$)

CCT= 4046K Prcp WL: $L_d = 580.7\text{nm}$ Purity=23.6%

Peak WL: $L_p = 458\text{nm}$ FWHM: $\approx 30.0\text{nm}$ Ratio: R=20.8% G=73.7% B=5.6%

Render Index: $R_a = 91.7$ AvgR = 90.7 TM30: $R_f = 89$ $R_g = 97$

EEL: 0.11995 A+

R1 =96 R2 =94 R3 =92 R4 =91 R5 =94 R6 =90 R7 =88

R8 =88 R9 =83 R10=89 R11=95 R12=73 R13=96 R14=96 R15=95

4.1 Integrating Sphere Test

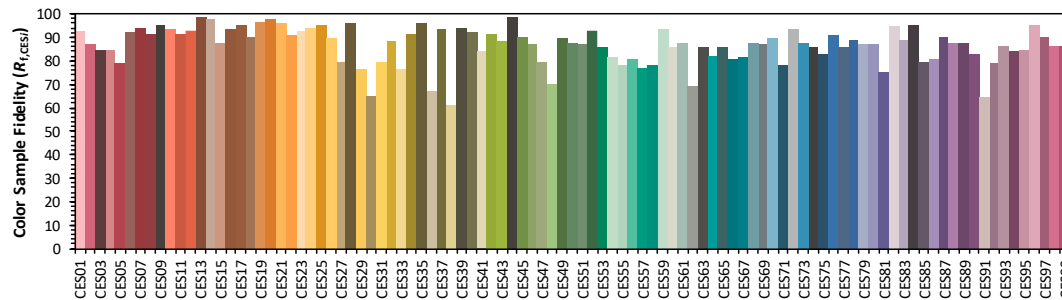
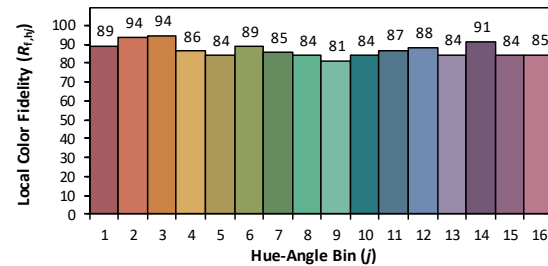
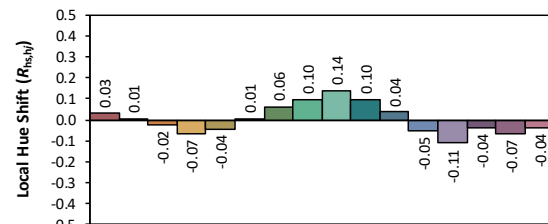
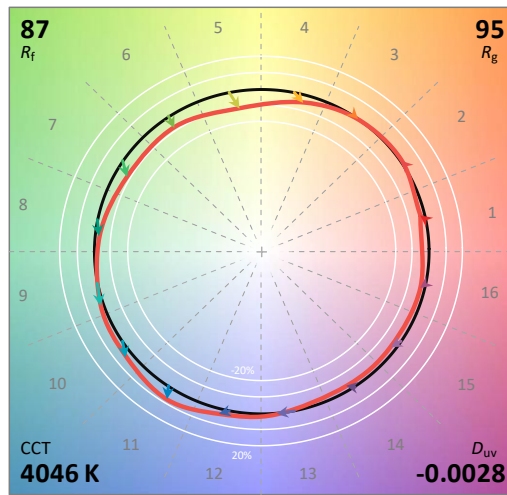
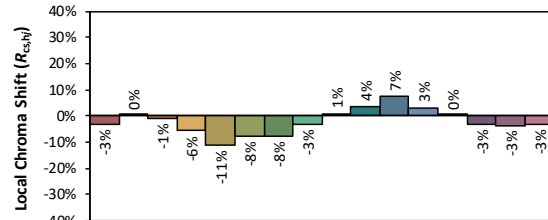
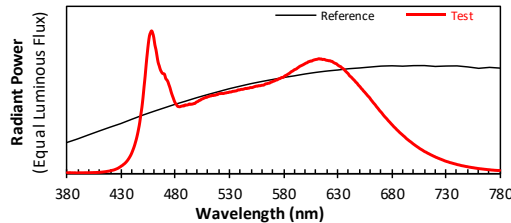
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc

Date: 2025/8/21

Model: V1-24 @10W4000K



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

x 0.3765
 y 0.3683
 u' 0.2259
 v' 0.4972

CIE 13.3-1995
(CRI)
 R_a 92
 R_g 83

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	3.60E-06	447	3.54E-04	514	5.45E-04	581	6.80E-04	648	6.31E-04	715	1.34E-04
381	2.20E-06	448	4.09E-04	515	5.44E-04	582	6.84E-04	649	6.20E-04	716	1.30E-04
382	3.10E-06	449	4.60E-04	516	5.46E-04	583	6.88E-04	650	6.12E-04	717	1.26E-04
383	3.00E-06	450	5.27E-04	517	5.46E-04	584	6.93E-04	651	6.04E-04	718	1.22E-04
384	1.90E-06	451	6.04E-04	518	5.50E-04	585	6.97E-04	652	5.93E-04	719	1.18E-04
385	2.50E-06	452	6.78E-04	519	5.50E-04	586	7.02E-04	653	5.86E-04	720	1.15E-04
386	1.70E-06	453	7.64E-04	520	5.56E-04	587	7.10E-04	654	5.76E-04	721	1.11E-04
387	2.60E-06	454	8.40E-04	521	5.57E-04	588	7.14E-04	655	5.68E-04	722	1.08E-04
388	1.40E-06	455	9.09E-04	522	5.57E-04	589	7.18E-04	656	5.59E-04	723	1.05E-04
389	1.20E-06	456	9.62E-04	523	5.59E-04	590	7.24E-04	657	5.51E-04	724	1.02E-04
390	1.80E-06	457	9.84E-04	524	5.57E-04	591	7.27E-04	658	5.41E-04	725	9.87E-05
391	2.60E-06	458	9.97E-04	525	5.59E-04	592	7.31E-04	659	5.34E-04	726	9.62E-05
392	2.20E-06	459	9.80E-04	526	5.61E-04	593	7.37E-04	660	5.25E-04	727	9.28E-05
393	2.30E-06	460	9.50E-04	527	5.62E-04	594	7.42E-04	661	5.14E-04	728	9.01E-05
394	2.30E-06	461	8.99E-04	528	5.65E-04	595	7.48E-04	662	5.05E-04	729	8.64E-05
395	2.30E-06	462	8.66E-04	529	5.65E-04	596	7.52E-04	663	4.94E-04	730	8.39E-05
396	2.60E-06	463	8.20E-04	530	5.68E-04	597	7.55E-04	664	4.86E-04	731	8.13E-05
397	2.80E-06	464	7.77E-04	531	5.68E-04	598	7.59E-04	665	4.77E-04	732	7.93E-05
398	2.50E-06	465	7.53E-04	532	5.70E-04	599	7.63E-04	666	4.66E-04	733	7.68E-05
399	2.60E-06	466	7.27E-04	533	5.73E-04	600	7.67E-04	667	4.58E-04	734	7.39E-05
400	3.20E-06	467	7.11E-04	534	5.73E-04	601	7.72E-04	668	4.48E-04	735	7.22E-05
401	2.80E-06	468	6.99E-04	535	5.75E-04	602	7.74E-04	669	4.38E-04	736	7.01E-05
402	3.40E-06	469	6.97E-04	536	5.76E-04	603	7.81E-04	670	4.30E-04	737	6.79E-05
403	3.40E-06	470	6.92E-04	537	5.78E-04	604	7.81E-04	671	4.21E-04	738	6.57E-05
404	3.70E-06	471	6.64E-04	538	5.83E-04	605	7.86E-04	672	4.11E-04	739	6.38E-05
405	4.00E-06	472	6.54E-04	539	5.83E-04	606	7.85E-04	673	4.01E-04	740	6.17E-05
406	4.00E-06	473	6.42E-04	540	5.85E-04	607	7.89E-04	674	3.93E-04	741	5.93E-05
407	4.50E-06	474	6.19E-04	541	5.87E-04	608	7.92E-04	675	3.85E-04	742	5.79E-05
408	4.90E-06	475	5.98E-04	542	5.87E-04	609	7.95E-04	676	3.77E-04	743	5.62E-05
409	5.10E-06	476	5.71E-04	543	5.89E-04	610	7.96E-04	677	3.67E-04	744	5.40E-05
410	5.60E-06	477	5.47E-04	544	5.91E-04	611	7.97E-04	678	3.60E-04	745	5.22E-05
411	6.40E-06	478	5.27E-04	545	5.93E-04	612	8.00E-04	679	3.51E-04	746	5.09E-05
412	7.00E-06	479	5.05E-04	546	5.93E-04	613	8.02E-04	680	3.43E-04	747	4.94E-05
413	8.00E-06	480	4.90E-04	547	5.95E-04	614	7.99E-04	681	3.35E-04	748	4.78E-05
414	8.80E-06	481	4.80E-04	548	5.95E-04	615	8.00E-04	682	3.26E-04	749	4.63E-05
415	9.80E-06	482	4.69E-04	549	5.99E-04	616	7.96E-04	683	3.19E-04	750	4.51E-05
416	1.08E-05	483	4.66E-04	550	6.00E-04	617	7.97E-04	684	3.12E-04	751	4.33E-05
417	1.24E-05	484	4.65E-04	551	6.00E-04	618	7.96E-04	685	3.03E-04	752	4.20E-05
418	1.33E-05	485	4.68E-04	552	6.02E-04	619	7.93E-04	686	2.97E-04	753	4.08E-05
419	1.48E-05	486	4.69E-04	553	6.05E-04	620	7.91E-04	687	2.88E-04	754	3.94E-05
420	1.65E-05	487	4.72E-04	554	6.08E-04	621	7.89E-04	688	2.82E-04	755	3.84E-05
421	1.86E-05	488	4.70E-04	555	6.10E-04	622	7.87E-04	689	2.75E-04	756	3.73E-05
422	2.03E-05	489	4.78E-04	556	6.09E-04	623	7.88E-04	690	2.68E-04	757	3.58E-05
423	2.21E-05	490	4.77E-04	557	6.13E-04	624	7.83E-04	691	2.61E-04	758	3.47E-05
424	2.47E-05	491	4.78E-04	558	6.12E-04	625	7.83E-04	692	2.55E-04	759	3.35E-05
425	2.79E-05	492	4.80E-04	559	6.14E-04	626	7.77E-04	693	2.48E-04	760	3.23E-05
426	3.09E-05	493	4.85E-04	560	6.16E-04	627	7.72E-04	694	2.40E-04	761	3.14E-05
427	3.46E-05	494	4.82E-04	561	6.16E-04	628	7.69E-04	695	2.35E-04	762	3.04E-05
428	3.93E-05	495	4.83E-04	562	6.18E-04	629	7.66E-04	696	2.28E-04	763	2.98E-05
429	4.41E-05	496	4.84E-04	563	6.24E-04	630	7.59E-04	697	2.23E-04	764	2.87E-05
430	4.96E-05	497	4.88E-04	564	6.26E-04	631	7.53E-04	698	2.17E-04	765	2.80E-05
431	5.42E-05	498	4.88E-04	565	6.27E-04	632	7.49E-04	699	2.11E-04	766	2.69E-05
432	6.08E-05	499	4.96E-04	566	6.31E-04	633	7.46E-04	700	2.05E-04	767	2.62E-05
433	6.64E-05	500	5.00E-04	567	6.30E-04	634	7.38E-04	701	1.99E-04	768	2.53E-05
434	7.41E-05	501	5.03E-04	568	6.36E-04	635	7.33E-04	702	1.94E-04	769	2.44E-05
435	8.23E-05	502	5.09E-04	569	6.38E-04	636	7.27E-04	703	1.89E-04	770	2.39E-05
436	9.23E-05	503	5.11E-04	570	6.42E-04	637	7.18E-04	704	1.83E-04	771	2.31E-05
437	1.04E-04	504	5.17E-04	571	6.45E-04	638	7.10E-04	705	1.78E-04	772	2.21E-05
438	1.16E-04	505	5.20E-04	572	6.47E-04	639	7.03E-04	706	1.73E-04	773	2.14E-05
439	1.30E-04	506	5.23E-04	573	6.52E-04	640	6.95E-04	707	1.68E-04	774	2.09E-05
440	1.48E-04	507	5.27E-04	574	6.53E-04	641	6.83E-04	708	1.64E-04	775	2.01E-05
441	1.68E-04	508	5.30E-04	575	6.58E-04	642	6.77E-04	709	1.59E-04	776	1.95E-05
442	1.89E-04	509	5.31E-04	576	6.61E-04	643	6.70E-04	710	1.54E-04	777	1.91E-05
443	2.15E-04	510	5.35E-04	577	6.63E-04	644	6.62E-04	711	1.49E-04	778	1.86E-05
444	2.42E-04	511	5.37E-04	578	6.69E-04	645	6.54E-04	712	1.46E-04	779	1.86E-05
445	2.75E-04	512	5.40E-04	579	6.71E-04	646	6.47E-04	713	1.41E-04	780	1.87E-05
446	3.12E-04	513	5.41E-04	580	6.72E-04	647	6.37E-04	714	1.38E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	V1-24 @10W4000K	Sample ID	250728007-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 $25 \pm 1^{\circ}\text{C}$, 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	0.047	10.9	0.843
NON-WORST CASE	120.0	60	0.084	10.0	0.989

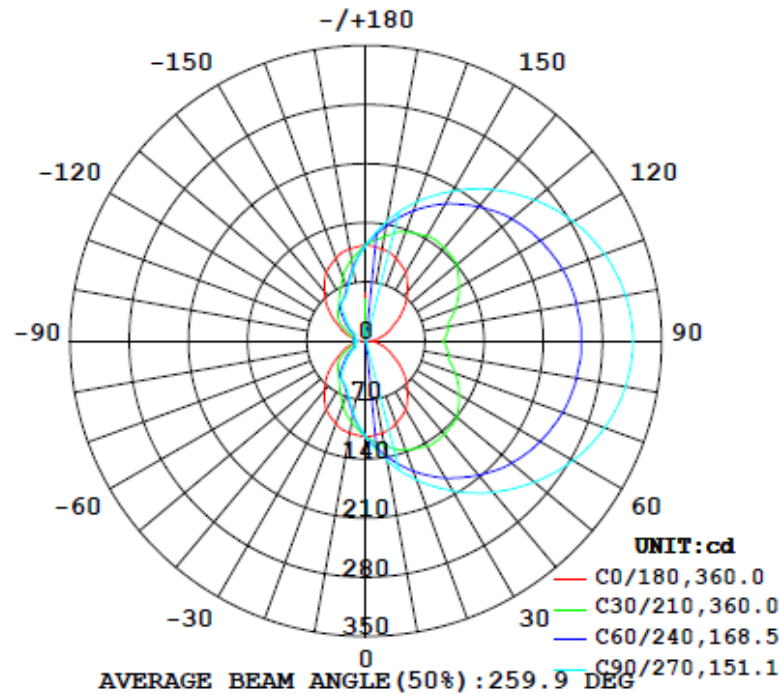
Test Result

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°)	
1281	90.9	155.1	180.0	97.9	117.5	26.7%	B0-U4-G1

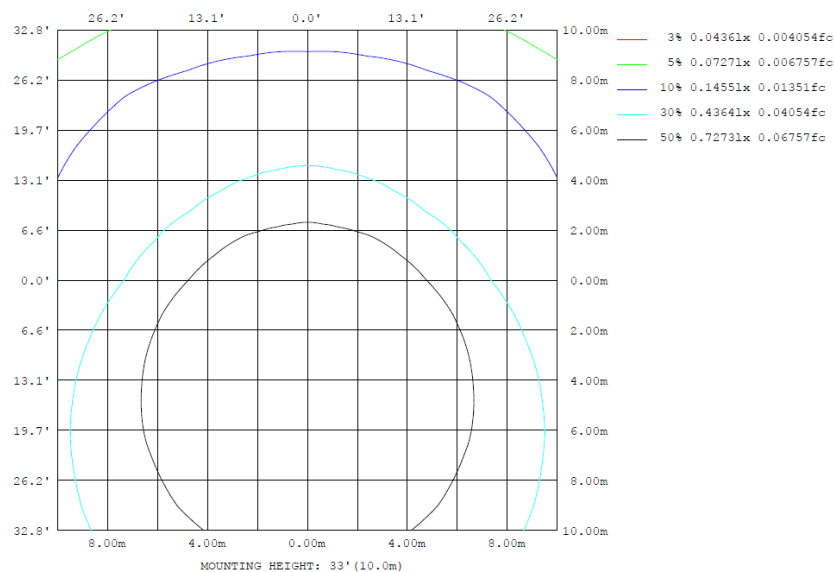
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

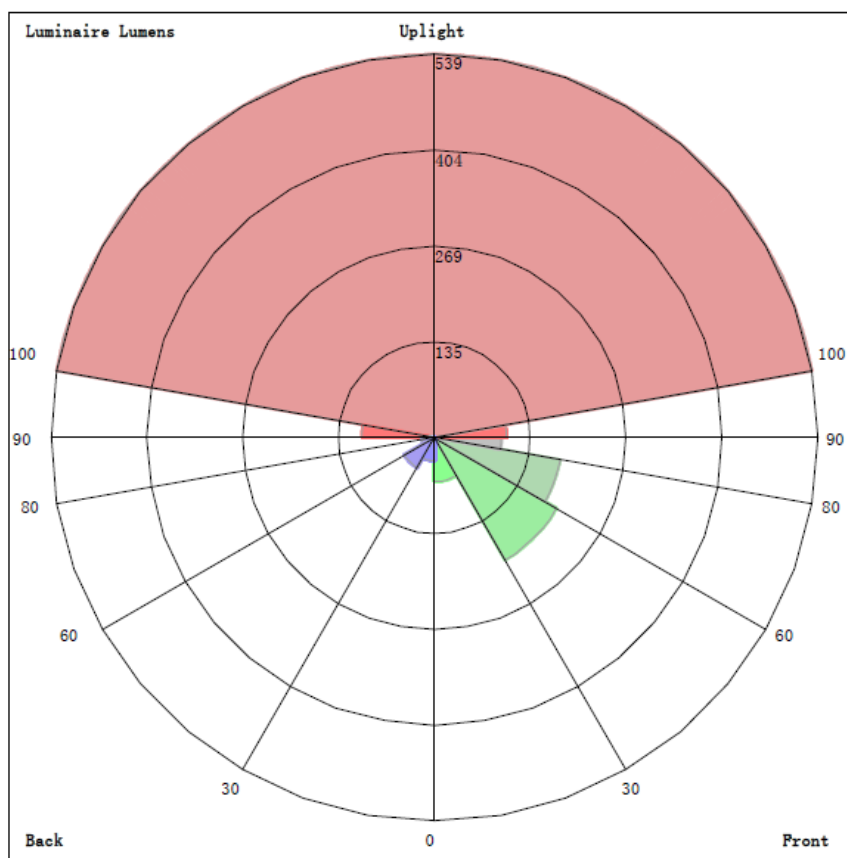
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total	lum, lamp
10	110.7	132.4	143.8	132.4	110.7	92.35	86.27	92.35	0- 10	10.78	10.78	0.84,0.84
20	104.2	152.9	175.0	152.9	104.2	72.38	63.63	72.38	10- 20	31.87	42.65	3.33,3.33
30	94.50	167.0	205.0	167.0	94.50	56.61	55.29	56.61	20- 30	51.73	94.37	7.37,7.37
40	76.74	179.4	233.8	179.4	76.74	50.57	40.47	50.57	30- 40	70.25	164.6	12.9,12.9
50	57.89	185.6	260.2	185.6	57.89	36.57	25.30	36.57	40- 50	84.19	248.8	19.4,19.4
60	37.95	188.6	283.2	188.6	37.95	22.75	14.13	22.75	50- 60	92.77	341.6	26.7,26.7
70	25.13	187.8	300.6	187.8	25.13	14.68	13.25	14.68	60- 70	97.46	439.0	34.3,34.3
80	13.37	183.9	312.1	183.9	13.37	14.21	12.62	14.21	70- 80	99.95	539.0	42.1,42.1
90	2.674	181.9	316.1	181.9	2.674	15.58	14.70	15.58	80- 90	101.3	640.3	50,50
100	13.37	183.9	312.1	183.9	13.37	14.21	12.62	14.21	90-100	101.3	741.7	57.9,57.9
110	25.13	187.8	300.6	187.8	25.13	14.68	13.25	14.68	100-110	99.95	841.6	65.7,65.7
120	37.95	188.6	283.2	188.6	37.95	22.75	14.13	22.75	110-120	97.46	939.1	73.3,73.3
130	57.89	185.6	260.2	185.6	57.89	36.57	25.30	36.57	120-130	92.77	1032	80.6,80.6
140	76.74	179.4	233.8	179.4	76.74	50.57	40.47	50.57	130-140	84.19	1116	87.1,87.1
150	94.50	167.0	205.0	167.0	94.50	56.61	55.29	56.61	140-150	70.25	1186	92.6,92.6
160	104.2	152.9	175.0	152.9	104.2	72.38	63.63	72.38	150-160	51.73	1238	96.7,96.7
170	110.7	132.4	143.8	132.4	110.7	92.35	86.27	92.35	160-170	31.87	1270	99.2,99.2
180	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	170-180	10.78	1281	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	10.78	0-10	10.78	0.85%
10-20	31.87	0-20	42.65	3.36%
20-30	51.73	0-30	94.38	7.43%
30-40	70.25	0-40	164.63	12.96%
40-50	84.19	0-50	248.82	19.59%
50-60	92.77	0-60	341.59	26.90%
60-70	97.46	0-70	439.05	34.57%
70-80	99.95	0-80	539.00	42.44%
80-90	101.33	0-90	640.33	50.42%
90-100	101.33	0-100	741.66	58.40%
100-110	99.95	0-110	841.61	66.27%
110-120	97.46	0-120	939.07	73.95%
120-130	92.77	0-130	1031.84	81.25%
130-140	84.19	0-140	1116.03	87.88%
140-150	70.25	0-150	1186.28	93.42%
150-160	51.73	0-160	1238.01	97.49%
160-170	31.87	0-170	1269.88	100.00%
170-180	10.78	0-180	1280.66	100.85%

4.2 Goniophotometer Test

LCS/BUG

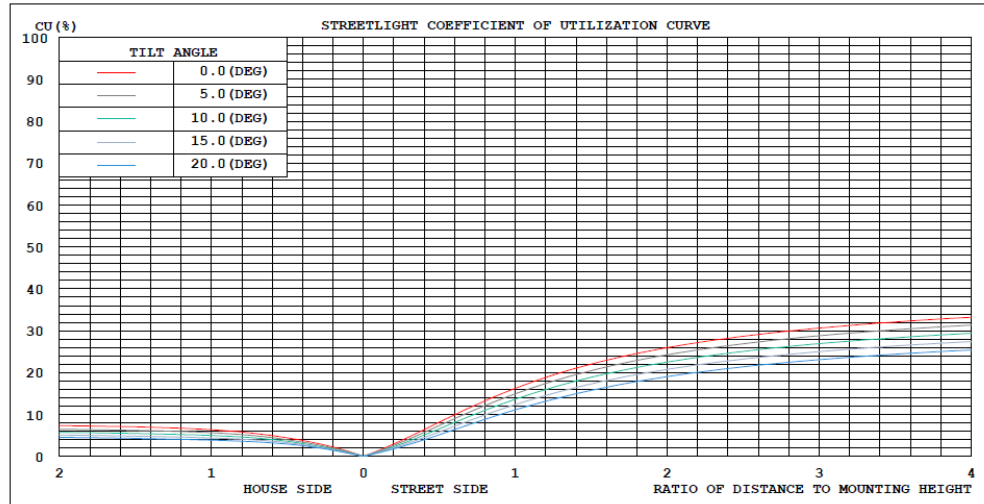


LUMINAIRE CLASSIFICATION SYSTEM (LCS)

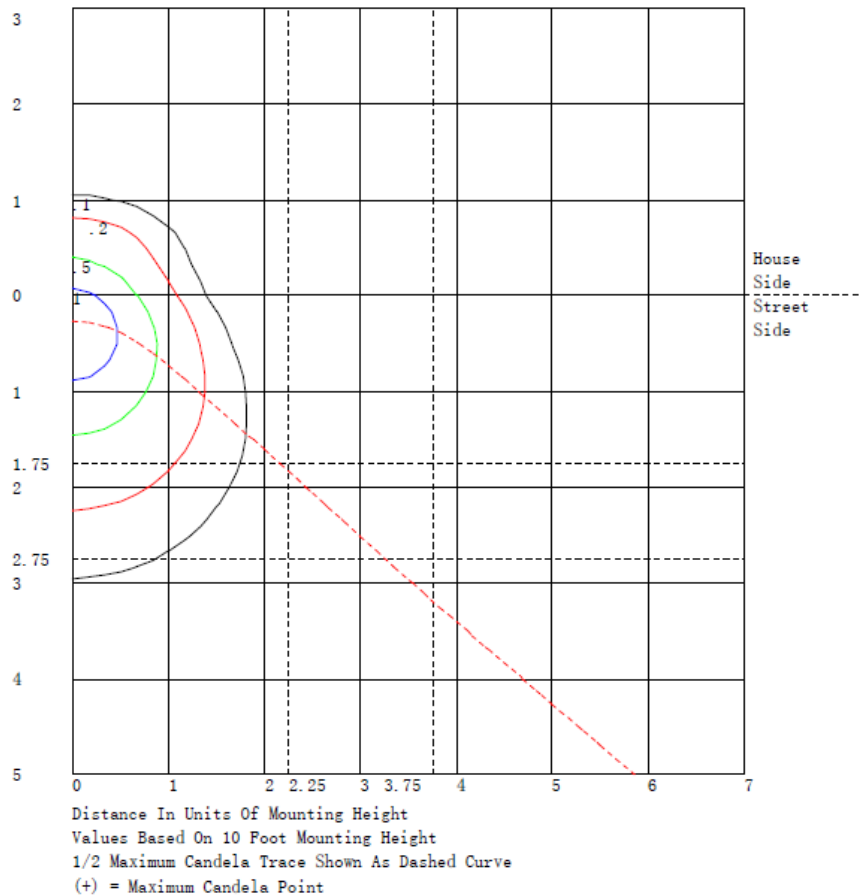
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	61.7	N.A.	4.8
FM - Front-Medium (30-60)	198.6	N.A.	15.5
FH - Front-High (60-80)	179.3	N.A.	14.0
FVH - Front-Very High (80-90)	94.0	N.A.	7.3
BL - Back-Low (0-30)	32.7	N.A.	2.6
BM - Back-Medium (30-60)	48.6	N.A.	3.8
BH - Back-High (60-80)	18.1	N.A.	1.4
BVH - Back-Very High (80-90)	7.3	N.A.	0.6
UL - Uplight-Low (90-100)	101.3	N.A.	7.9
UH - Uplight-High (100-180)	539.0	N.A.	42.1
Total	1280.6	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	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
5	112	116	120	123	125	128	129	128	125	123	120	116	112	109	106	103	101	100	100
10	111	118	126	132	138	142	144	142	138	132	126	118	111	104	97.7	92.4	88.5	86.4	86.3
15	109	120	132	143	151	157	160	157	151	143	132	120	109	99.3	89.6	81.8	76.7	74.0	73.8
20	104	120	137	153	164	172	175	172	164	153	137	120	104	91.1	80.2	72.4	66.5	63.8	63.6
25	99.4	119	140	160	176	185	190	185	176	160	140	119	99.4	83.4	70.7	63.2	59.3	57.6	57.7
30	94.5	118	144	167	188	200	205	200	188	167	144	118	94.5	75.6	62.5	56.6	55.3	54.9	55.3
35	85.6	114	145	174	197	214	220	214	197	174	145	114	85.6	66.4	55.9	52.8	53.0	52.0	50.8
40	76.7	109	144	179	208	227	234	227	208	179	144	109	76.7	57.9	50.7	50.6	46.8	41.9	40.5
45	67.9	103	143	182	217	240	247	240	217	182	143	103	67.9	50.3	46.8	45.3	37.4	33.4	32.2
50	57.9	93.9	140	186	225	251	260	251	225	186	140	93.9	57.9	44.1	43.4	36.6	30.2	26.5	25.3
55	47.9	83.2	134	189	232	262	272	262	232	189	134	83.2	47.9	38.9	37.4	29.1	23.6	20.6	19.6
60	37.9	72.5	127	189	238	271	283	271	238	189	127	72.5	37.9	34.0	30.3	22.7	17.5	14.8	14.1
65	31.5	63.2	120	189	243	280	293	280	243	189	120	63.2	31.5	28.7	23.5	17.3	14.5	13.8	13.6
70	25.1	54.0	113	188	248	287	301	287	248	188	113	54.0	25.1	22.8	18.8	14.7	14.3	13.6	13.2
75	18.7	44.3	104	186	251	292	307	292	251	186	104	44.3	18.7	16.9	14.7	14.3	14.4	13.6	13.1
80	13.4	41.8	99.3	184	253	297	312	297	253	184	99.3	41.8	13.4	15.5	13.6	14.2	14.1	13.4	12.6
85	8.02	39.8	96.0	184	255	299	315	299	255	184	96.0	39.8	8.02	14.5	14.3	14.9	14.4	12.1	11.2
90	2.67	37.6	91.6	182	255	301	316	301	255	182	91.6	37.6	2.67	13.7	14.9	15.6	15.4	12.5	14.7
95	8.02	39.8	96.0	184	255	299	315	299	255	184	96.0	39.8	8.02	14.5	14.3	14.9	14.4	12.1	11.2
100	13.4	41.8	99.3	184	253	297	312	297	253	184	99.3	41.8	13.4	15.5	13.6	14.2	14.1	13.4	12.6
105	18.7	44.3	104	186	251	292	307	292	251	186	104	44.3	18.7	16.9	14.7	14.3	14.4	13.6	13.1
110	25.1	54.0	113	188	248	287	301	287	248	188	113	54.0	25.1	22.8	18.8	14.7	14.3	13.6	13.2
115	31.5	63.2	120	189	243	280	293	280	243	189	120	63.2	31.5	28.7	23.5	17.3	14.5	13.8	13.6
120	37.9	72.5	127	189	238	271	283	271	238	189	127	72.5	37.9	34.0	30.3	22.7	17.5	14.8	14.1
125	47.9	83.2	134	189	232	262	272	262	232	189	134	83.2	47.9	38.9	37.4	29.1	23.6	20.6	19.6
130	57.9	93.9	140	186	225	251	260	251	225	186	140	93.9	57.9	44.1	43.4	36.6	30.2	26.5	25.3
135	67.9	103	143	182	217	240	247	240	217	182	143	103	67.9	50.3	46.8	45.3	37.4	33.4	32.2
140	76.7	109	144	179	208	227	234	227	208	179	144	109	76.7	57.9	50.7	50.6	46.8	41.9	40.5
145	85.6	114	145	174	197	214	220	214	197	174	145	114	85.6	66.4	55.9	52.8	53.0	52.0	50.8
150	94.5	118	144	167	188	200	205	200	188	167	144	118	94.5	75.6	62.5	56.6	55.3	54.9	55.3
155	99.4	119	140	160	176	185	190	185	176	160	140	119	99.4	83.4	70.7	63.2	59.3	57.6	57.7
160	104	120	137	153	164	172	175	172	164	153	137	120	104	91.1	80.2	72.4	66.5	63.8	63.6
165	109	120	132	143	151	157	160	157	151	143	132	120	109	99.3	89.6	81.8	76.7	74.0	73.8
170	111	118	126	132	138	142	144	142	138	132	126	118	111	104	97.7	92.4	88.5	86.4	86.3
175	112	116	120	123	125	128	129	128	125	123	120	116	112	109	106	103	101	100	100
180	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	114	114	114	114	114														
5	100	101	103	106	109														
10	86.4	88.5	92.4	97.7	104														
15	74.0	76.7	81.8	89.6	99.3														
20	63.8	66.5	72.4	80.2	91.1														
25	57.6	59.3	63.2	70.7	83.4														
30	54.9	55.3	56.6	62.5	75.6														
35	52.0	53.0	52.8	55.9	66.4														
40	41.9	46.8	50.6	50.7	57.9														
45	33.4	37.4	45.3	46.8	50.3														
50	26.5	30.2	36.6	43.4	44.1														
55	20.6	23.6	29.1	37.4	38.9														
60	14.8	17.5	22.7	30.3	34.0														
65	13.8	14.5	17.3	23.5	28.7														
70	13.6	14.3	14.7	18.8	22.8														
75	13.6	14.4	14.3	14.7	16.9														
80	13.4	14.1	14.2	13.6	15.5														
85	12.1	14.4	14.9	14.3	14.5														
90	12.5	15.4	15.6	14.9	13.7														
95	12.1	14.4	14.9	14.3	14.5														
100	13.4	14.1	14.2	13.6	15.5														
105	13.6	14.4	14.3	14.7	16.9														
110	13.6	14.3	14.7	18.8	22.8														
115	13.8	14.5	17.3	23.5	28.7														
120	14.8	17.5	22.7	30.3	34.0														
125	20.6	23.6	29.1	37.4	38.9														
130	26.5	30.2	36.6	43.4	44.1														
135	33.4	37.4	45.3	46.8	50.3														
140	41.9	46.8	50.6	50.7	57.9														
145	52.0	53.0	52.8	55.9	66.4														
150	54.9	55.3	56.6	62.5	75.6														
155	57.6	59.3	63.2	70.7	83.4														
160	63.8	66.5	72.4	80.2	91.1														
165	74.0	76.7	81.8	89.6	99.3														
170	86.4	88.5	92.4	97.7	104														
175	100	101	103	106	109														
180	114	114	114	114	114														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	V1-24 @10W4000K	Sample ID	250728007-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	0.084	10.0	0.989	8.65
277.0	60	0.047	10.9	0.843	32.94

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*****