

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		1715
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	116.7
			N/A	N/A	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		14.7
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002	N/A	120V	5.66
		ANSI C82-77-10:2020		277V	20.79
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002	N/A	120V	0.994
		ANSI C82-77-10:2020		277V	0.921
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	3465±245	3479
			4 steps	3465±124	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		92.3
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		79
Minimum Rf (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥70		88
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%		-3%
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-G2
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		0.058
(Goniophotometer – Section 4.2)			Non-Worst Case		0.122
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		14.7
(Goniophotometer – Section 4.2)			Non-Worst Case		14.6

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-08-07	V1-24B @15W3500K	-	250728008-S1
2	Goniophotometer Test	2025-08-07	V1-24B @15W3500K	-	250728008-S1
3	THD and PF Test	2025-08-07	V1-24B @15W3500K	-	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 @15W3500K, 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 @15W3500K	Sample ID	250728008-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

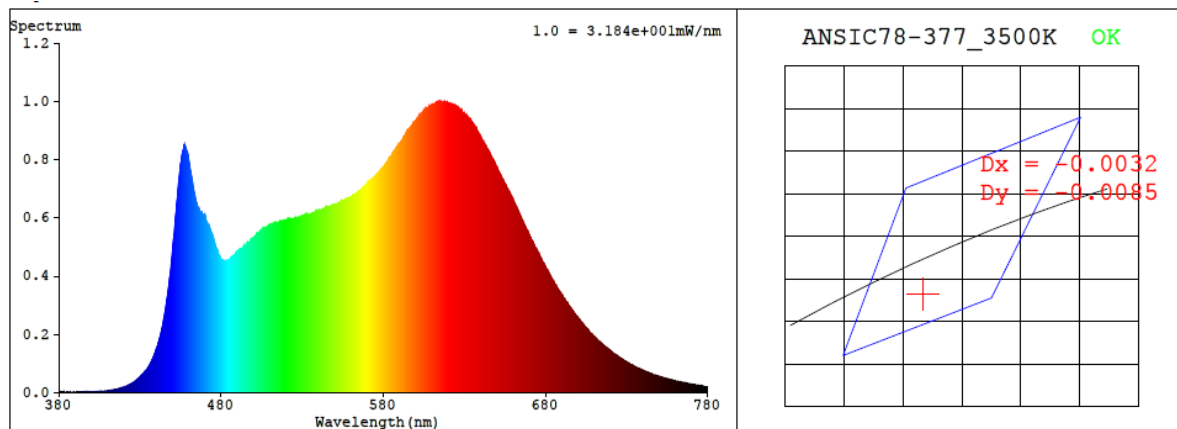
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.122	14.6	0.994
277.0	60	0.058	14.7	0.921

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3479	92.3	79	-0.0031	3.9	88	96	-3%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4033$ $y = 0.3829$ / $u' = 0.2377$ $v' = 0.5076$ ($duv = -3.05e-03$)

CCT= 3479K Prcp WL: Ld=582.4nm Purity=35.9%

Peak WL: Lp=615nm FWHM: =179.2nm Ratio:R=23.0% G=72.3% B=4.7%

Render Index: Ra = 92.3 AvgR = 91.3 TM30:Rf=90 Rg=98

EEL: 0.12166 A+

R1 =97 R2 =94 R3 =92 R4 =94 R5 =95 R6 =89 R7 =89

R8 =87 R9 =79 R10=88 R11=97 R12=78 R13=96 R14=96 R15=96

4.1 Integrating Sphere Test

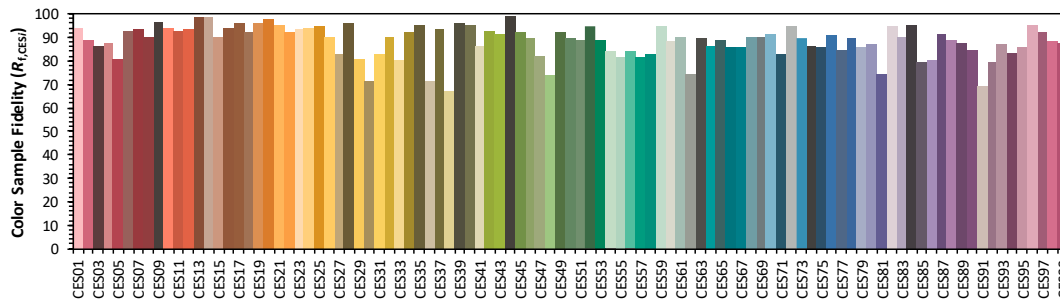
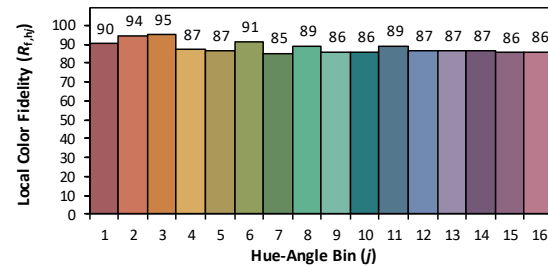
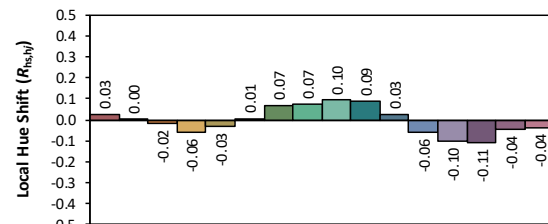
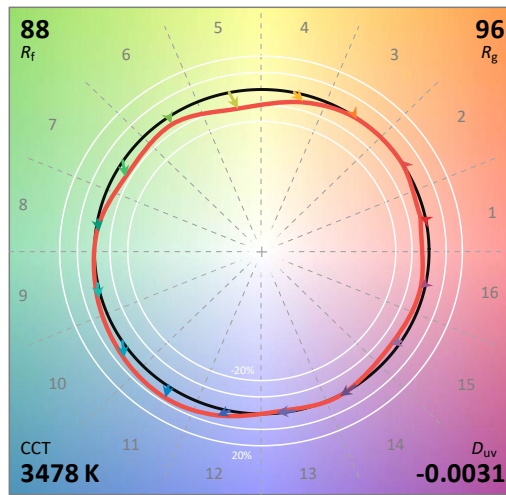
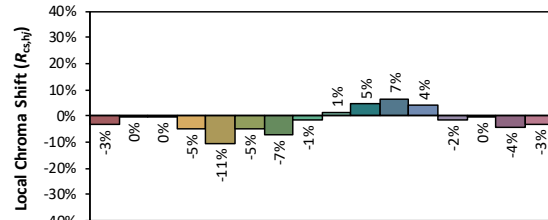
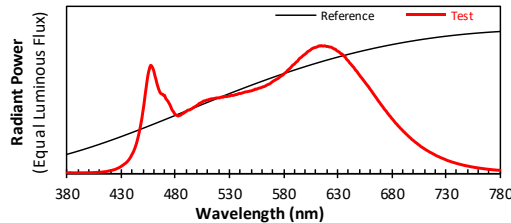
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc

Date: 2025/8/22

Model: V1-24B @15W3500K



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

x 0.4033
 y 0.3828
 u' 0.2377
 v' 0.5076

CIE 13.3-1995
(CRI)

R_a 92
 R_g 79

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	2.00E-06	447	3.39E-04	514	5.84E-04	581	7.82E-04	648	7.96E-04	715	1.66E-04
381	1.90E-06	448	3.83E-04	515	5.82E-04	582	7.89E-04	649	7.83E-04	716	1.61E-04
382	3.10E-06	449	4.30E-04	516	5.85E-04	583	7.96E-04	650	7.72E-04	717	1.58E-04
383	3.80E-06	450	4.88E-04	517	5.87E-04	584	8.07E-04	651	7.59E-04	718	1.53E-04
384	1.30E-06	451	5.44E-04	518	5.89E-04	585	8.14E-04	652	7.50E-04	719	1.49E-04
385	2.40E-06	452	6.12E-04	519	5.90E-04	586	8.22E-04	653	7.39E-04	720	1.44E-04
386	1.50E-06	453	6.73E-04	520	5.90E-04	587	8.30E-04	654	7.28E-04	721	1.38E-04
387	2.50E-06	454	7.37E-04	521	5.90E-04	588	8.41E-04	655	7.16E-04	722	1.35E-04
388	1.60E-06	455	7.85E-04	522	5.95E-04	589	8.49E-04	656	7.05E-04	723	1.31E-04
389	2.20E-06	456	8.19E-04	523	5.95E-04	590	8.54E-04	657	6.94E-04	724	1.27E-04
390	1.30E-06	457	8.44E-04	524	5.95E-04	591	8.63E-04	658	6.84E-04	725	1.23E-04
391	2.70E-06	458	8.40E-04	525	5.98E-04	592	8.72E-04	659	6.73E-04	726	1.19E-04
392	2.30E-06	459	8.24E-04	526	6.01E-04	593	8.78E-04	660	6.60E-04	727	1.16E-04
393	2.40E-06	460	8.01E-04	527	6.00E-04	594	8.90E-04	661	6.49E-04	728	1.12E-04
394	2.20E-06	461	7.65E-04	528	6.01E-04	595	9.00E-04	662	6.36E-04	729	1.09E-04
395	2.60E-06	462	7.35E-04	529	6.03E-04	596	9.05E-04	663	6.25E-04	730	1.05E-04
396	2.20E-06	463	7.00E-04	530	6.04E-04	597	9.12E-04	664	6.12E-04	731	1.01E-04
397	2.60E-06	464	6.72E-04	531	6.07E-04	598	9.21E-04	665	6.00E-04	732	9.79E-05
398	2.90E-06	465	6.48E-04	532	6.10E-04	599	9.26E-04	666	5.89E-04	733	9.55E-05
399	2.60E-06	466	6.29E-04	533	6.09E-04	600	9.33E-04	667	5.76E-04	734	9.20E-05
400	3.00E-06	467	6.22E-04	534	6.11E-04	601	9.39E-04	668	5.64E-04	735	8.96E-05
401	3.00E-06	468	6.19E-04	535	6.13E-04	602	9.49E-04	669	5.53E-04	736	8.65E-05
402	3.60E-06	469	6.10E-04	536	6.16E-04	603	9.55E-04	670	5.40E-04	737	8.37E-05
403	3.00E-06	470	6.09E-04	537	6.16E-04	604	9.60E-04	671	5.29E-04	738	8.18E-05
404	3.90E-06	471	5.86E-04	538	6.21E-04	605	9.65E-04	672	5.18E-04	739	7.88E-05
405	4.70E-06	472	5.75E-04	539	6.25E-04	606	9.74E-04	673	5.06E-04	740	7.67E-05
406	4.00E-06	473	5.64E-04	540	6.24E-04	607	9.77E-04	674	4.95E-04	741	7.41E-05
407	5.40E-06	474	5.50E-04	541	6.26E-04	608	9.82E-04	675	4.86E-04	742	7.18E-05
408	5.50E-06	475	5.34E-04	542	6.29E-04	609	9.84E-04	676	4.73E-04	743	6.99E-05
409	5.70E-06	476	5.14E-04	543	6.31E-04	610	9.87E-04	677	4.62E-04	744	6.69E-05
410	6.60E-06	477	4.94E-04	544	6.34E-04	611	9.89E-04	678	4.52E-04	745	6.54E-05
411	7.00E-06	478	4.84E-04	545	6.37E-04	612	9.93E-04	679	4.42E-04	746	6.33E-05
412	8.10E-06	479	4.70E-04	546	6.38E-04	613	9.98E-04	680	4.31E-04	747	6.08E-05
413	8.90E-06	480	4.58E-04	547	6.39E-04	614	9.96E-04	681	4.21E-04	748	5.93E-05
414	1.01E-05	481	4.55E-04	548	6.41E-04	615	1.00E-03	682	4.11E-04	749	5.75E-05
415	1.11E-05	482	4.50E-04	549	6.43E-04	616	9.97E-04	683	4.00E-04	750	5.56E-05
416	1.22E-05	483	4.49E-04	550	6.44E-04	617	9.96E-04	684	3.90E-04	751	5.43E-05
417	1.38E-05	484	4.53E-04	551	6.47E-04	618	9.98E-04	685	3.82E-04	752	5.21E-05
418	1.57E-05	485	4.56E-04	552	6.51E-04	619	9.96E-04	686	3.71E-04	753	5.05E-05
419	1.78E-05	486	4.63E-04	553	6.53E-04	620	9.93E-04	687	3.63E-04	754	4.88E-05
420	1.90E-05	487	4.67E-04	554	6.59E-04	621	9.93E-04	688	3.53E-04	755	4.77E-05
421	2.08E-05	488	4.72E-04	555	6.58E-04	622	9.90E-04	689	3.44E-04	756	4.59E-05
422	2.36E-05	489	4.79E-04	556	6.62E-04	623	9.88E-04	690	3.36E-04	757	4.42E-05
423	2.58E-05	490	4.83E-04	557	6.65E-04	624	9.88E-04	691	3.26E-04	758	4.35E-05
424	2.81E-05	491	4.90E-04	558	6.68E-04	625	9.82E-04	692	3.20E-04	759	4.17E-05
425	3.15E-05	492	4.94E-04	559	6.69E-04	626	9.78E-04	693	3.10E-04	760	4.05E-05
426	3.55E-05	493	4.95E-04	560	6.73E-04	627	9.73E-04	694	3.03E-04	761	3.95E-05
427	3.94E-05	494	5.00E-04	561	6.76E-04	628	9.71E-04	695	2.94E-04	762	3.81E-05
428	4.30E-05	495	5.04E-04	562	6.78E-04	629	9.62E-04	696	2.86E-04	763	3.70E-05
429	4.87E-05	496	5.10E-04	563	6.82E-04	630	9.56E-04	697	2.79E-04	764	3.59E-05
430	5.36E-05	497	5.16E-04	564	6.87E-04	631	9.52E-04	698	2.71E-04	765	3.46E-05
431	5.98E-05	498	5.20E-04	565	6.92E-04	632	9.45E-04	699	2.62E-04	766	3.31E-05
432	6.50E-05	499	5.25E-04	566	6.96E-04	633	9.37E-04	700	2.57E-04	767	3.28E-05
433	7.24E-05	500	5.32E-04	567	6.99E-04	634	9.35E-04	701	2.49E-04	768	3.12E-05
434	7.75E-05	501	5.37E-04	568	7.05E-04	635	9.26E-04	702	2.42E-04	769	3.06E-05
435	8.56E-05	502	5.46E-04	569	7.11E-04	636	9.17E-04	703	2.37E-04	770	2.96E-05
436	9.51E-05	503	5.49E-04	570	7.18E-04	637	9.11E-04	704	2.29E-04	771	2.84E-05
437	1.05E-04	504	5.54E-04	571	7.24E-04	638	8.98E-04	705	2.23E-04	772	2.75E-05
438	1.18E-04	505	5.58E-04	572	7.28E-04	639	8.87E-04	706	2.17E-04	773	2.66E-05
439	1.32E-04	506	5.64E-04	573	7.33E-04	640	8.80E-04	707	2.09E-04	774	2.57E-05
440	1.48E-04	507	5.67E-04	574	7.39E-04	641	8.66E-04	708	2.03E-04	775	2.51E-05
441	1.64E-04	508	5.68E-04	575	7.42E-04	642	8.57E-04	709	1.98E-04	776	2.45E-05
442	1.84E-04	509	5.73E-04	576	7.50E-04	643	8.48E-04	710	1.92E-04	777	2.34E-05
443	2.07E-04	510	5.72E-04	577	7.56E-04	644	8.37E-04	711	1.87E-04	778	2.27E-05
444	2.34E-04	511	5.77E-04	578	7.62E-04	645	8.29E-04	712	1.81E-04	779	2.27E-05
445	2.65E-04	512	5.80E-04	579	7.67E-04	646	8.16E-04	713	1.77E-04	780	2.27E-05
446	3.00E-04	513	5.81E-04	580	7.74E-04	647	8.05E-04	714	1.72E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	V1-24B @15W3500K	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 $25 \pm 1^{\circ}\text{C}$, 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	0.058	14.7	0.921
NON-WORST CASE	120.0	60	0.122	14.6	0.994

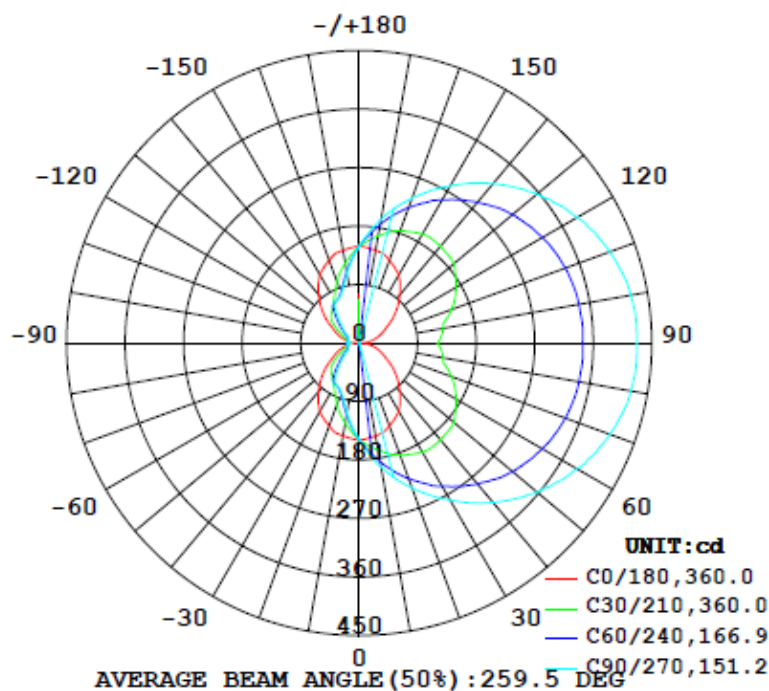
Test Result

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°)	
1715	86.2	154.7	180.0	97.5	116.7	26.5%	B0-U4-G2

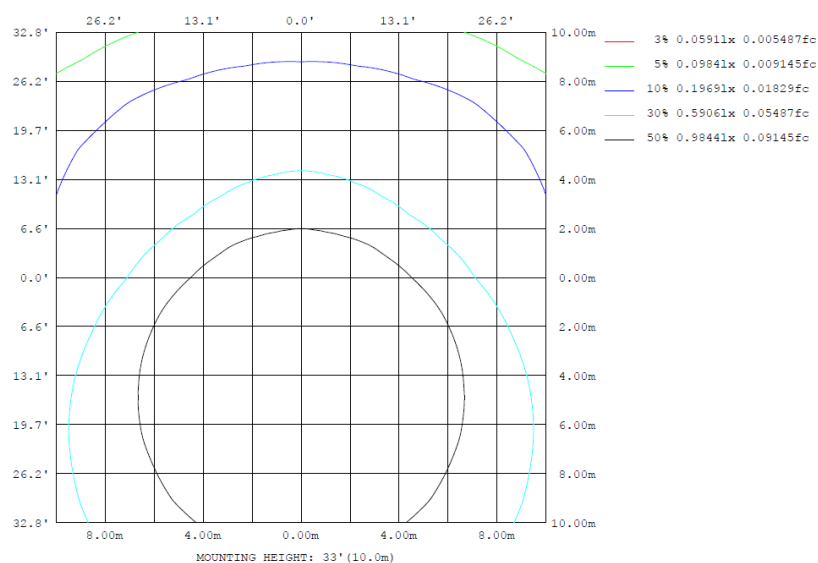
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

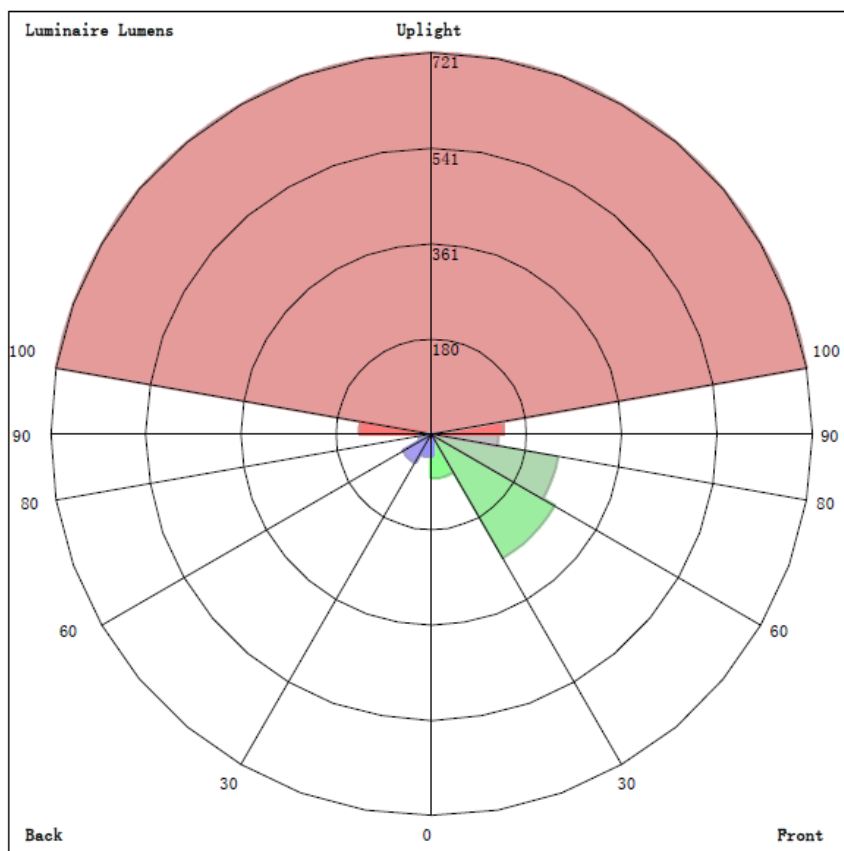
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zone	φ total	%lum, lamp
10	145.1	177.3	193.6	177.3	145.1	117.5	108.8	117.5	0- 10	14.13	14.13	0.82,0.82
20	135.8	205.9	237.1	205.9	135.8	89.92	80.73	89.92	10- 20	41.82	55.94	3.26,3.26
30	121.9	225.7	279.4	225.7	121.9	73.09	74.45	73.09	20- 30	68.54	124.5	7.26,7.26
40	97.48	243.9	320.7	243.9	97.48	67.05	49.70	67.05	30- 40	93.65	218.1	12.7,12.7
50	72.92	252.6	357.0	252.6	72.92	44.28	30.75	44.28	40- 50	112.4	330.5	19.3,19.3
60	48.23	256.0	387.0	256.0	48.23	27.46	19.10	27.46	50- 60	124.4	454.9	26.5,26.5
70	32.37	254.7	410.0	254.7	32.37	19.61	18.46	19.61	60- 70	131.6	586.5	34.2,34.2
80	17.30	247.2	423.3	247.2	17.30	19.28	18.26	19.28	70- 80	134.9	721.5	42.1,42.1
90	3.018	241.0	426.8	241.0	3.018	20.12	18.98	20.12	80- 90	136.0	857.5	50,50
100	17.30	247.2	423.3	247.2	17.30	19.28	18.26	19.28	90-100	136.0	993.5	57.9,57.9
110	32.37	254.7	410.0	254.7	32.37	19.61	18.46	19.61	100-110	134.9	1128	65.8,65.8
120	48.23	256.0	387.0	256.0	48.23	27.46	19.10	27.46	110-120	131.6	1260	73.5,73.5
130	72.92	252.6	357.0	252.6	72.92	44.28	30.75	44.28	120-130	124.4	1384	80.7,80.7
140	97.48	243.9	320.7	243.9	97.48	67.05	49.70	67.05	130-140	112.4	1497	87.3,87.3
150	121.9	225.7	279.4	225.7	121.9	73.09	74.45	73.09	140-150	93.65	1591	92.7,92.7
160	135.8	205.9	237.1	205.9	135.8	89.92	80.73	89.92	150-160	68.54	1659	96.7,96.7
170	145.1	177.3	193.6	177.3	145.1	117.5	108.8	117.5	160-170	41.82	1701	99.2,99.2
180	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	170-180	14.13	1715	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	14.13	0-10	14.13	0.83%
10-20	41.82	0-20	55.95	3.29%
20-30	68.54	0-30	124.49	7.32%
30-40	93.65	0-40	218.14	12.83%
40-50	112.35	0-50	330.49	19.43%
50-60	124.45	0-60	454.94	26.75%
60-70	131.60	0-70	586.54	34.49%
70-80	134.92	0-80	721.46	42.42%
80-90	136.03	0-90	857.49	50.42%
90-100	136.03	0-100	993.52	58.41%
100-110	134.92	0-110	1128.44	66.35%
110-120	131.60	0-120	1260.04	74.08%
120-130	124.45	0-130	1384.49	81.40%
130-140	112.35	0-140	1496.84	88.01%
140-150	93.65	0-150	1590.49	93.51%
150-160	68.54	0-160	1659.03	97.54%
160-170	41.82	0-170	1700.85	100.00%
170-180	14.13	0-180	1714.98	100.83%

4.2 Goniophotometer Test

LCS/BUG

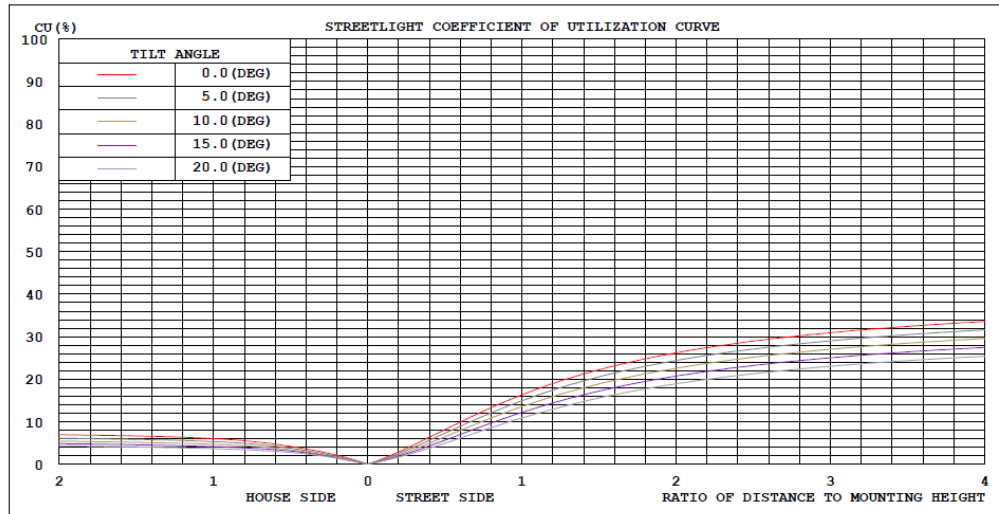


LUMINAIRE CLASSIFICATION SYSTEM (LCS)

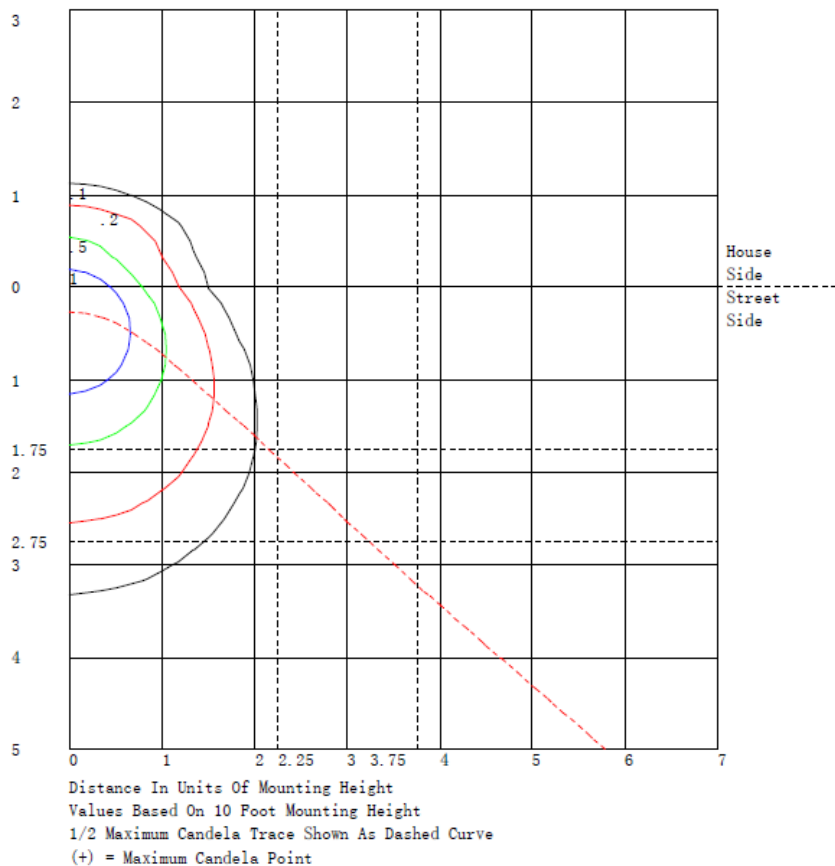
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	82.8	N.A.	4.8
FM - Front-Medium (30-60)	269.2	N.A.	15.7
FH - Front-High (60-80)	243.1	N.A.	14.2
FVH - Front-Very High (80-90)	126.5	N.A.	7.4
BL - Back-Low (0-30)	41.7	N.A.	2.4
BM - Back-Medium (30-60)	61.3	N.A.	3.6
BH - Back-High (60-80)	23.5	N.A.	1.4
BVH - Back-Very High (80-90)	9.5	N.A.	0.6
UL - Uplight-Low (90-100)	136.0	N.A.	7.9
UH - Uplight-High (100-180)	721.5	N.A.	42.1
Total	1715.1	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) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
5	147	153	158	163	167	169	171	169	167	163	158	153	147	142	137	133	130	129	129
10	145	156	167	177	185	191	194	191	185	177	167	156	145	134	125	117	112	109	109
15	143	160	177	192	204	212	216	212	204	192	177	160	143	127	113	103	95.5	92.2	91.9
20	136	159	184	206	222	232	237	232	222	206	184	159	136	116	100	89.9	83.2	80.7	80.7
25	129	158	189	217	238	252	259	252	238	217	189	158	129	105	87.8	79.3	76.4	75.4	75.8
30	122	157	194	226	255	272	279	272	255	226	194	157	122	94.1	78.0	73.1	73.0	73.7	74.5
35	110	151	196	235	270	291	301	291	270	235	196	151	110	82.2	70.8	69.9	70.1	65.4	63.7
40	97.5	144	195	244	283	311	321	311	283	244	195	144	97.5	71.6	65.5	67.1	58.1	51.5	49.7
45	85.3	136	193	249	296	328	339	328	296	249	193	136	85.3	62.8	61.3	56.5	45.5	40.5	38.8
50	72.9	124	190	253	308	343	357	343	308	253	190	124	72.9	56.1	56.0	44.3	36.0	31.9	30.8
55	60.6	110	181	256	317	357	372	357	317	256	181	110	60.6	50.0	46.8	34.4	28.6	25.3	24.6
60	48.2	95.1	172	256	325	371	387	371	325	256	172	95.1	48.2	44.5	36.5	27.5	22.2	19.8	19.1
65	40.3	83.4	162	256	332	382	401	382	332	256	162	83.4	40.3	37.0	27.8	21.9	19.7	18.9	18.5
70	32.4	71.5	151	255	337	391	410	391	337	255	151	71.5	32.4	28.7	22.9	19.6	19.5	18.8	18.5
75	24.4	58.7	138	251	341	398	419	398	341	251	138	58.7	24.4	20.0	18.9	19.4	19.4	18.8	18.4
80	17.3	55.2	131	247	343	403	423	403	343	247	131	55.2	17.3	18.1	17.7	19.3	18.9	18.5	18.3
85	10.2	52.4	127	246	344	406	427	406	344	246	127	52.4	10.2	17.1	18.1	19.7	19.2	16.8	16.2
90	3.02	49.3	121	241	343	406	427	406	343	241	121	49.3	3.02	16.3	18.4	20.1	20.5	16.5	19.0
95	10.2	52.4	127	246	344	406	427	406	344	246	127	52.4	10.2	17.1	18.1	19.7	19.2	16.8	16.2
100	17.3	55.2	131	247	343	403	423	403	343	247	131	55.2	17.3	18.1	17.7	19.3	18.9	18.5	18.3
105	24.4	58.7	138	251	341	398	419	398	341	251	138	58.7	24.4	20.0	18.9	19.4	19.4	18.8	18.4
110	32.4	71.5	151	255	337	391	410	391	337	255	151	71.5	32.4	28.7	22.9	19.6	19.5	18.8	18.5
115	40.3	83.4	162	256	332	382	401	382	332	256	162	83.4	40.3	37.0	27.8	21.9	19.7	18.9	18.5
120	48.2	95.1	172	256	325	371	387	371	325	256	172	95.1	48.2	44.5	36.5	27.5	22.2	19.8	19.1
125	60.6	110	181	256	317	357	372	357	317	256	181	110	60.6	50.0	46.8	34.4	28.6	25.3	24.6
130	72.9	124	190	253	308	343	357	343	308	253	190	124	72.9	56.1	56.0	44.3	36.0	31.9	30.8
135	85.3	136	193	249	296	328	339	328	296	249	193	136	85.3	62.8	61.3	56.5	45.5	40.5	38.8
140	97.5	144	195	244	283	311	321	311	283	244	195	144	97.5	71.6	65.5	67.1	58.1	51.5	49.7
145	110	151	196	235	270	291	301	291	270	235	196	151	110	82.2	70.8	69.9	70.1	65.4	63.7
150	122	157	194	226	255	272	279	272	255	226	194	157	122	94.1	78.0	73.1	73.0	73.7	74.5
155	129	158	189	217	238	252	259	252	238	217	189	158	129	105	87.8	79.3	76.4	75.4	75.8
160	136	159	184	206	222	232	237	232	222	206	184	159	136	116	100	89.9	83.2	80.7	80.7
165	143	160	177	192	204	212	216	212	204	192	177	160	143	127	113	103	95.5	92.2	91.9
170	145	156	167	177	185	191	194	191	185	177	167	156	145	134	125	117	112	109	109
175	147	153	158	163	167	169	171	169	167	163	158	153	147	142	137	133	130	129	129
180	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	150	150	150	150	150														
5	129	130	133	137	142														
10	109	112	117	125	134														
15	92.2	95.5	103	113	127														
20	80.7	83.2	89.9	100	116														
25	75.4	76.4	79.3	87.8	105														
30	73.7	73.0	73.1	78.0	94.1														
35	65.4	70.1	69.9	70.8	82.2														
40	51.5	58.1	67.1	65.5	71.6														
45	40.5	45.5	56.5	61.3	62.8														
50	31.9	36.0	44.3	56.0	56.1														
55	25.3	28.6	34.4	46.8	50.0														
60	19.8	22.2	27.5	36.5	44.5														
65	18.9	19.7	21.9	27.8	37.0														
70	18.8	19.5	19.6	22.9	28.7														
75	18.8	19.4	19.4	18.9	20.0														
80	18.5	18.9	19.3	17.7	18.1														
85	16.8	19.2	19.7	18.1	17.1														
90	16.5	20.5	20.1	18.4	16.3														
95	16.8	19.2	19.7	18.1	17.1														
100	18.5	18.9	19.3	17.7	18.1														
105	18.8	19.4	19.4	18.9	20.0														
110	18.8	19.5	19.6	22.9	28.7														
115	18.9	19.7	21.9	27.8	37.0														
120	19.8	22.2	27.5	36.5	44.5														
125	25.3	28.6	34.4	46.8	50.0														
130	31.9	36.0	44.3	56.0	56.1														
135	40.5	45.5	56.5	61.3	62.8														
140	51.5	58.1	67.1	65.5	71.6														
145	65.4	70.1	69.9	70.8	82.2														
150	73.7	73.0	73.1	78.0	94.1														
155	75.4	76.4	79.3	87.8	105														
160	80.7	83.2	89.9	100	116														
165	92.2	95.5	103	113	127														
170	109	112	117	125	134														
175	129	130	133	137	142														
180	150	150	150	150	150														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	V1-24B @15W3500K	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	0.122	14.6	0.994	5.66
277.0	60	0.058	14.7	0.921	20.79

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*****