

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		1871
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	118.4
			N/A	N/A	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		15.8
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	6.71
				277V	15.80
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	0.994
				277V	0.945
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	5029±283	4962
			4 steps	5029±220	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		91.3
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		72
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%		-5%
Zonal Lumen Requirement (0°-60°) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	N/A		26.6%
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		0.133
(Goniophotometer – Section 4.2)			Non-Worst Case		0.060
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		15.8
(Goniophotometer – Section 4.2)			Non-Worst Case		15.7

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-07-28	V1-18B @16W5000K	-	250728006-S1
2	Goniophotometer Test	2025-07-28	V1-18B @16W5000K	-	250728006-S1
3	THD and PF Test	2025-07-28	V1-18B @16W5000K	-	250728006-S1

Remark (If any):

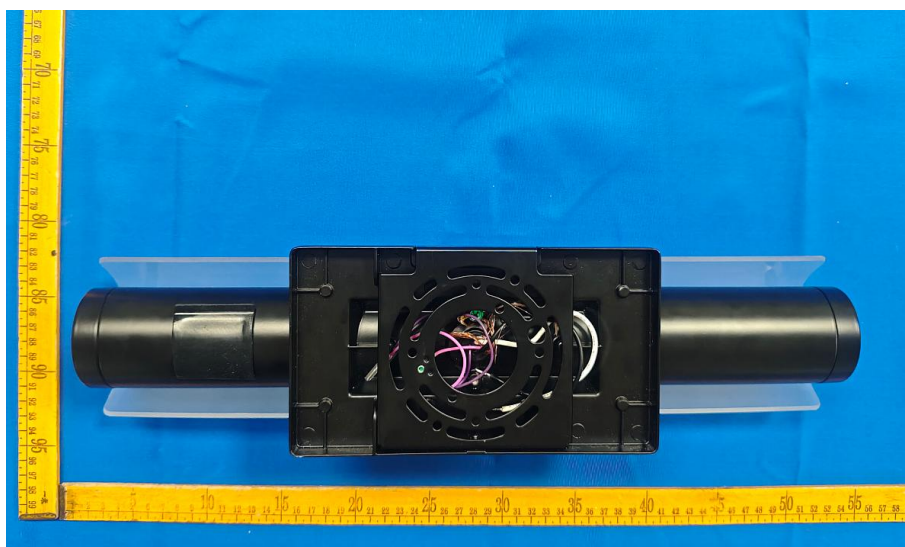
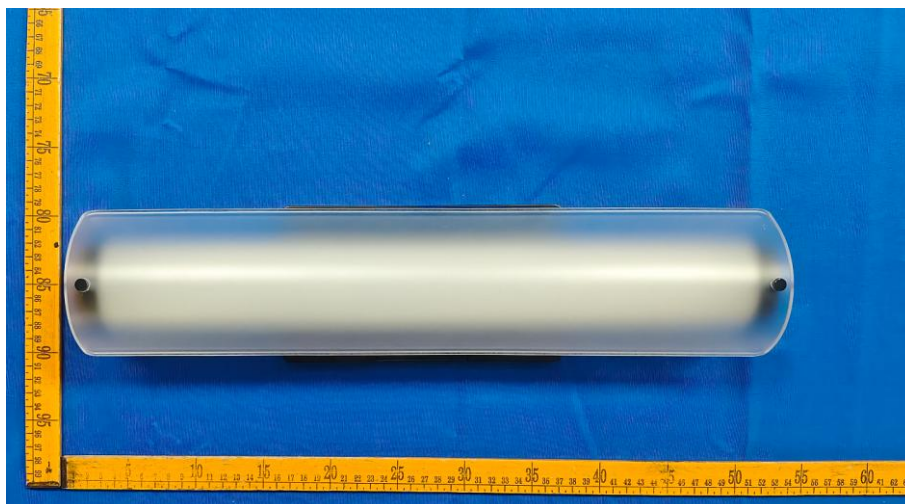
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3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. V1-18B @16W5000K, 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.	V1-18B @16W5000K	Sample ID	250728006-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

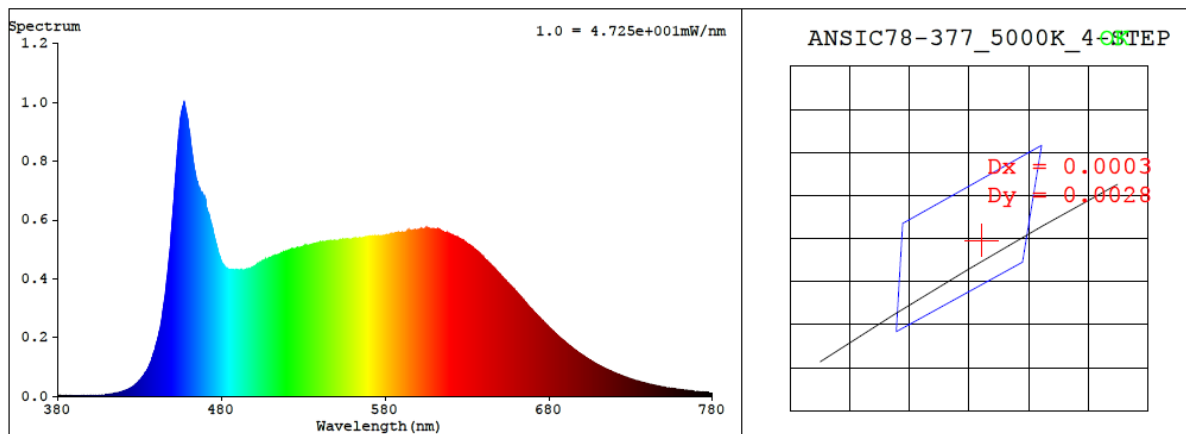
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.133	15.8	0.994
277.0	60	0.060	15.7	0.945

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4962	91.3	72	0.0013	1.3	87	95	-5%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3464$ $y = 0.3553$ / $u' = 0.2109$ $v' = 0.4867$ ($duv=1.32e-03$)

CCT= 4962K Prcp WL: $L_d=571.9nm$ Purity=10.6%

Peak WL: $L_p=457nm$ FWHM: $=29.4nm$ Ratio: R=17.7% G=76.0% B=6.3%

Render Index: $R_a = 91.3$ AvgR = 89.4 TM30: $R_f=89$ $R_g=96$

EEL: 0.11764 A+

R1 =96 R2 =97 R3 =94 R4 =86 R5 =92 R6 =95 R7 =87

R8 =84 R9 =72 R10=96 R11=89 R12=67 R13=99 R14=97 R15=91

4.1 Integrating Sphere Test

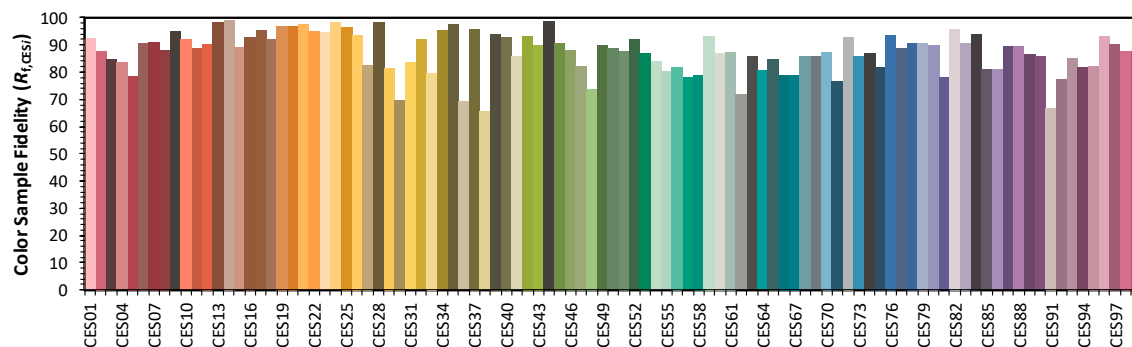
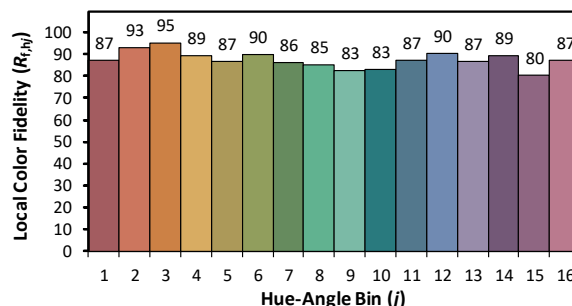
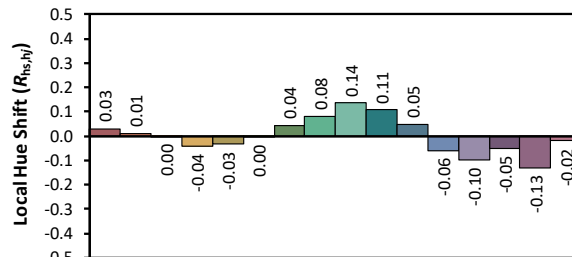
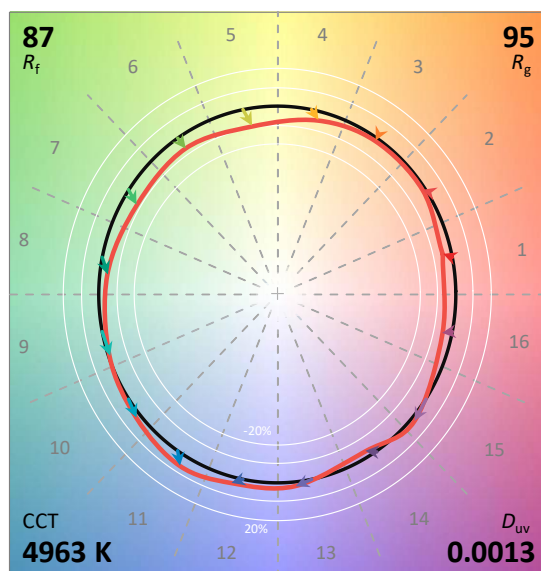
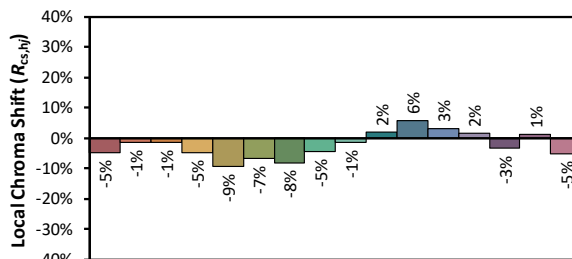
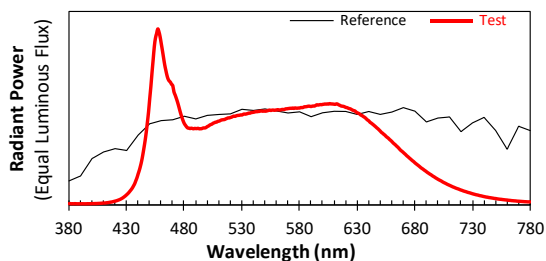
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/8/21

Model: V1-18B @16W5000K



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

x 0.3464
 y 0.3552
 u' 0.2109
 v' 0.4866

CIE 13.3-1995
(CRI)
 R_a 91
 R_g 72

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	2.70E-06	447	4.09E-04	514	4.80E-04	581	5.49E-04	648	4.28E-04	715	9.27E-05
381	3.40E-06	448	4.65E-04	515	4.81E-04	582	5.49E-04	649	4.22E-04	716	9.01E-05
382	2.20E-06	449	5.24E-04	516	4.85E-04	583	5.50E-04	650	4.15E-04	717	8.78E-05
383	2.60E-06	450	5.99E-04	517	4.87E-04	584	5.53E-04	651	4.08E-04	718	8.56E-05
384	2.30E-06	451	6.68E-04	518	4.90E-04	585	5.54E-04	652	4.03E-04	719	8.26E-05
385	3.00E-06	452	7.47E-04	519	4.90E-04	586	5.54E-04	653	3.97E-04	720	8.02E-05
386	2.60E-06	453	8.21E-04	520	4.93E-04	587	5.56E-04	654	3.92E-04	721	7.81E-05
387	2.20E-06	454	8.95E-04	521	4.95E-04	588	5.57E-04	655	3.85E-04	722	7.54E-05
388	2.20E-06	455	9.44E-04	522	4.98E-04	589	5.56E-04	656	3.80E-04	723	7.33E-05
389	2.20E-06	456	9.70E-04	523	5.00E-04	590	5.55E-04	657	3.75E-04	724	7.15E-05
390	2.10E-06	457	9.96E-04	524	4.99E-04	591	5.57E-04	658	3.68E-04	725	6.93E-05
391	2.40E-06	458	9.80E-04	525	5.02E-04	592	5.58E-04	659	3.62E-04	726	6.69E-05
392	2.30E-06	459	9.52E-04	526	5.04E-04	593	5.58E-04	660	3.56E-04	727	6.53E-05
393	2.20E-06	460	9.13E-04	527	5.05E-04	594	5.61E-04	661	3.49E-04	728	6.35E-05
394	2.10E-06	461	8.74E-04	528	5.06E-04	595	5.65E-04	662	3.43E-04	729	6.12E-05
395	2.20E-06	462	8.33E-04	529	5.07E-04	596	5.63E-04	663	3.38E-04	730	5.92E-05
396	2.70E-06	463	7.92E-04	530	5.07E-04	597	5.65E-04	664	3.31E-04	731	5.73E-05
397	2.50E-06	464	7.61E-04	531	5.10E-04	598	5.66E-04	665	3.25E-04	732	5.56E-05
398	2.60E-06	465	7.31E-04	532	5.12E-04	599	5.65E-04	666	3.18E-04	733	5.38E-05
399	2.70E-06	466	7.11E-04	533	5.12E-04	600	5.67E-04	667	3.11E-04	734	5.25E-05
400	3.20E-06	467	7.00E-04	534	5.13E-04	601	5.68E-04	668	3.04E-04	735	5.10E-05
401	3.00E-06	468	6.93E-04	535	5.15E-04	602	5.69E-04	669	3.00E-04	736	4.89E-05
402	3.40E-06	469	6.81E-04	536	5.18E-04	603	5.69E-04	670	2.93E-04	737	4.78E-05
403	3.70E-06	470	6.74E-04	537	5.17E-04	604	5.70E-04	671	2.88E-04	738	4.64E-05
404	3.70E-06	471	6.39E-04	538	5.20E-04	605	5.69E-04	672	2.82E-04	739	4.46E-05
405	4.20E-06	472	6.22E-04	539	5.21E-04	606	5.72E-04	673	2.75E-04	740	4.32E-05
406	4.40E-06	473	6.03E-04	540	5.22E-04	607	5.70E-04	674	2.70E-04	741	4.18E-05
407	4.90E-06	474	5.83E-04	541	5.24E-04	608	5.70E-04	675	2.64E-04	742	4.04E-05
408	5.40E-06	475	5.60E-04	542	5.26E-04	609	5.69E-04	676	2.58E-04	743	3.96E-05
409	5.70E-06	476	5.36E-04	543	5.26E-04	610	5.68E-04	677	2.52E-04	744	3.80E-05
410	6.30E-06	477	5.12E-04	544	5.27E-04	611	5.68E-04	678	2.46E-04	745	3.71E-05
411	6.80E-06	478	4.92E-04	545	5.27E-04	612	5.70E-04	679	2.42E-04	746	3.61E-05
412	7.30E-06	479	4.74E-04	546	5.29E-04	613	5.68E-04	680	2.35E-04	747	3.49E-05
413	8.30E-06	480	4.58E-04	547	5.30E-04	614	5.64E-04	681	2.30E-04	748	3.38E-05
414	9.00E-06	481	4.49E-04	548	5.28E-04	615	5.62E-04	682	2.25E-04	749	3.25E-05
415	1.03E-05	482	4.39E-04	549	5.29E-04	616	5.58E-04	683	2.20E-04	750	3.20E-05
416	1.15E-05	483	4.33E-04	550	5.29E-04	617	5.57E-04	684	2.14E-04	751	3.07E-05
417	1.24E-05	484	4.32E-04	551	5.29E-04	618	5.56E-04	685	2.09E-04	752	2.96E-05
418	1.39E-05	485	4.30E-04	552	5.31E-04	619	5.54E-04	686	2.04E-04	753	2.87E-05
419	1.57E-05	486	4.32E-04	553	5.33E-04	620	5.50E-04	687	1.99E-04	754	2.79E-05
420	1.73E-05	487	4.30E-04	554	5.35E-04	621	5.49E-04	688	1.94E-04	755	2.74E-05
421	1.91E-05	488	4.29E-04	555	5.33E-04	622	5.46E-04	689	1.90E-04	756	2.63E-05
422	2.13E-05	489	4.31E-04	556	5.34E-04	623	5.43E-04	690	1.85E-04	757	2.55E-05
423	2.38E-05	490	4.30E-04	557	5.35E-04	624	5.42E-04	691	1.80E-04	758	2.46E-05
424	2.63E-05	491	4.30E-04	558	5.34E-04	625	5.38E-04	692	1.76E-04	759	2.40E-05
425	2.96E-05	492	4.31E-04	559	5.35E-04	626	5.34E-04	693	1.71E-04	760	2.34E-05
426	3.32E-05	493	4.28E-04	560	5.35E-04	627	5.32E-04	694	1.67E-04	761	2.24E-05
427	3.76E-05	494	4.29E-04	561	5.37E-04	628	5.30E-04	695	1.62E-04	762	2.17E-05
428	4.24E-05	495	4.29E-04	562	5.36E-04	629	5.24E-04	696	1.58E-04	763	2.11E-05
429	4.77E-05	496	4.32E-04	563	5.35E-04	630	5.20E-04	697	1.54E-04	764	2.01E-05
430	5.37E-05	497	4.33E-04	564	5.37E-04	631	5.16E-04	698	1.49E-04	765	1.97E-05
431	5.99E-05	498	4.33E-04	565	5.38E-04	632	5.13E-04	699	1.46E-04	766	1.89E-05
432	6.69E-05	499	4.36E-04	566	5.38E-04	633	5.07E-04	700	1.42E-04	767	1.87E-05
433	7.51E-05	500	4.41E-04	567	5.39E-04	634	5.04E-04	701	1.38E-04	768	1.79E-05
434	8.32E-05	501	4.44E-04	568	5.42E-04	635	4.99E-04	702	1.35E-04	769	1.71E-05
435	9.26E-05	502	4.49E-04	569	5.42E-04	636	4.95E-04	703	1.31E-04	770	1.68E-05
436	1.04E-04	503	4.53E-04	570	5.43E-04	637	4.91E-04	704	1.27E-04	771	1.63E-05
437	1.17E-04	504	4.55E-04	571	5.44E-04	638	4.84E-04	705	1.23E-04	772	1.58E-05
438	1.34E-04	505	4.60E-04	572	5.45E-04	639	4.78E-04	706	1.20E-04	773	1.53E-05
439	1.51E-04	506	4.62E-04	573	5.45E-04	640	4.74E-04	707	1.17E-04	774	1.48E-05
440	1.72E-04	507	4.66E-04	574	5.46E-04	641	4.66E-04	708	1.13E-04	775	1.42E-05
441	1.93E-04	508	4.66E-04	575	5.44E-04	642	4.62E-04	709	1.10E-04	776	1.39E-05
442	2.17E-04	509	4.70E-04	576	5.47E-04	643	4.56E-04	710	1.07E-04	777	1.35E-05
443	2.45E-04	510	4.72E-04	577	5.46E-04	644	4.51E-04	711	1.04E-04	778	1.31E-05
444	2.80E-04	511	4.74E-04	578	5.45E-04	645	4.45E-04	712	1.01E-04	779	1.31E-05
445	3.19E-04	512	4.78E-04	579	5.46E-04	646	4.40E-04	713	9.80E-05	780	1.32E-05
446	3.60E-04	513	4.79E-04	580	5.46E-04	647	4.34E-04	714	9.57E-05	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	V1-18B @16W5000K	Sample ID	250728006-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	25.2	Humidity (%RH)	40.0

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	120.0	60	0.133	15.8	0.994
NON-WORST CASE	277.0	60	0.060	15.7	0.945

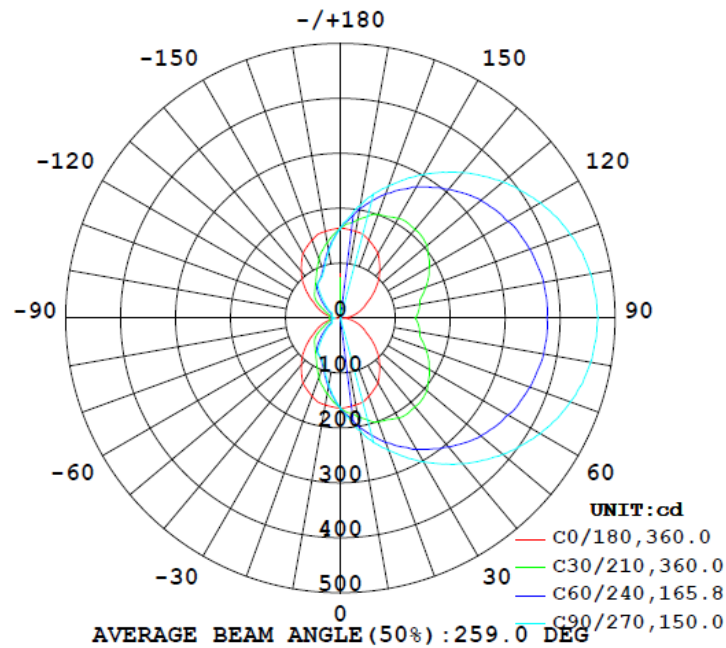
Test Result

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°)	
1871	87.4	155.6	180.0	97.5	118.4	26.6%	B0-U4-G2

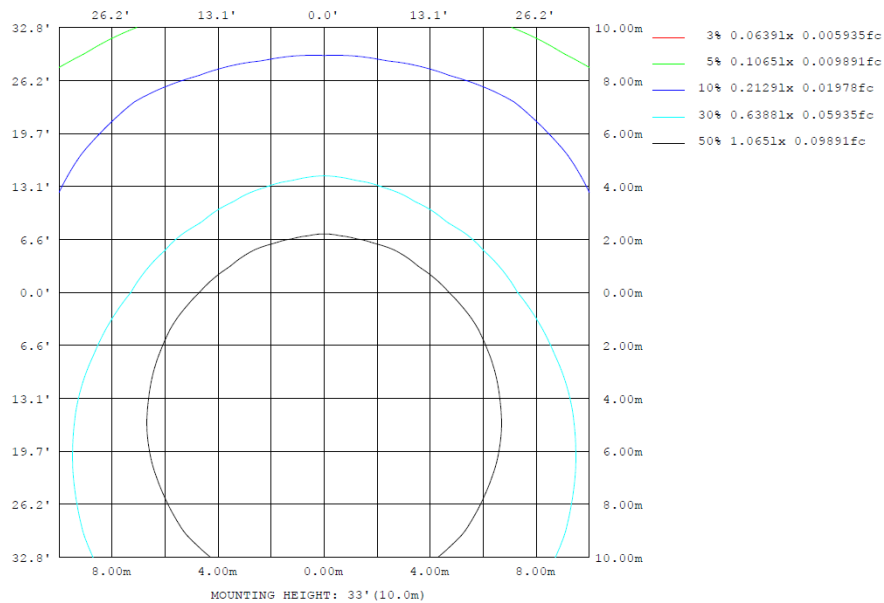
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

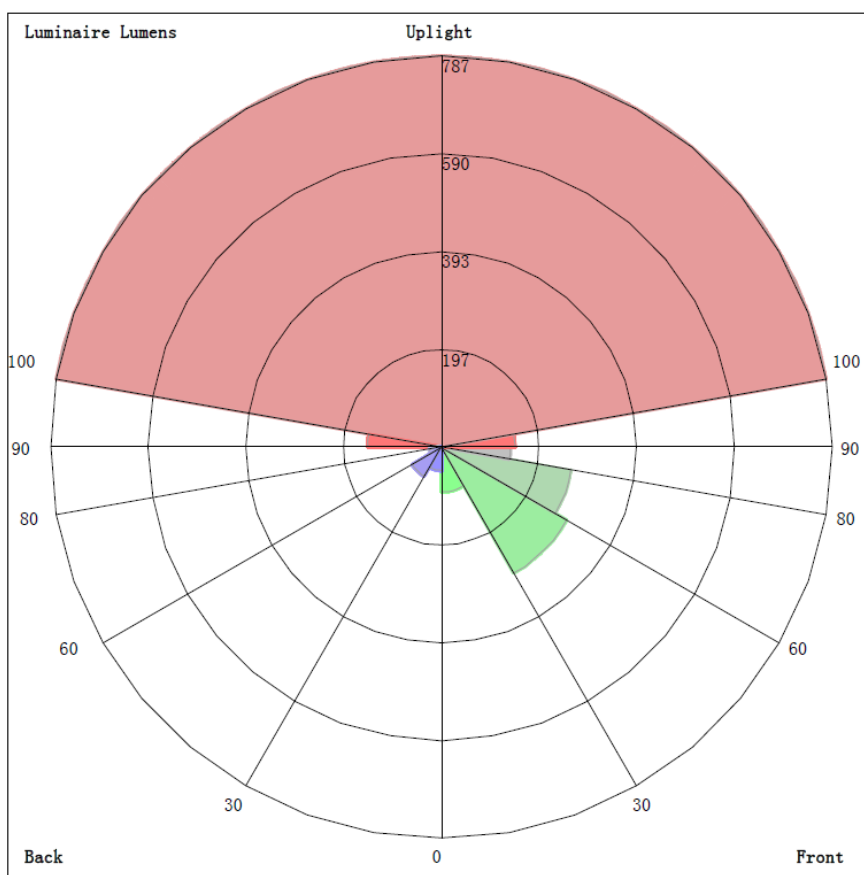
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total	%lum, lamp
10	160.5	192.5	207.5	192.5	160.5	131.7	123.3	131.7	0- 10	15.56	15.56	0.83,0.83
20	151.3	223.1	256.6	223.1	151.3	102.1	90.12	102.1	10- 20	46.09	61.65	3.3,3.3
30	136.8	245.5	301.6	245.5	136.8	80.05	78.15	80.05	20- 30	75.04	136.7	7.31,7.31
40	111.1	265.2	345.7	265.2	111.1	71.35	56.48	71.35	30- 40	102.2	238.9	12.8,12.8
50	84.00	273.7	385.4	273.7	84.00	49.96	33.82	49.96	40- 50	122.8	361.8	19.3,19.3
60	55.63	277.7	420.2	277.7	55.63	29.54	17.35	29.54	50- 60	135.6	497.4	26.6,26.6
70	37.54	276.6	445.4	276.6	37.54	18.44	16.32	18.44	60- 70	142.7	640.1	34.2,34.2
80	20.33	271.1	462.7	271.1	20.33	18.10	15.01	18.10	70- 80	146.6	786.7	42.1,42.1
90	3.988	267.2	469.1	267.2	3.988	18.47	15.43	18.47	80- 90	148.7	935.4	50,50
100	20.33	271.1	462.7	271.1	20.33	18.10	15.01	18.10	90-100	148.7	1084	57.9,57.9
110	37.54	276.6	445.4	276.6	37.54	18.44	16.32	18.44	100-110	146.6	1231	65.8,65.8
120	55.63	277.7	420.2	277.7	55.63	29.54	17.35	29.54	110-120	142.7	1373	73.4,73.4
130	84.00	273.7	385.4	273.7	84.00	49.96	33.82	49.96	120-130	135.6	1509	80.7,80.7
140	111.1	265.2	345.7	265.2	111.1	71.35	56.48	71.35	130-140	122.8	1632	87.2,87.2
150	136.8	245.5	301.6	245.5	136.8	80.05	78.15	80.05	140-150	102.2	1734	92.7,92.7
160	151.3	223.1	256.6	223.1	151.3	102.1	90.12	102.1	150-160	75.04	1809	96.7,96.7
170	160.5	192.5	207.5	192.5	160.5	131.7	123.3	131.7	160-170	46.09	1855	99.2,99.2
180	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	170-180	15.56	1871	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	15.56	0-10	15.56	0.84%
10-20	46.09	0-20	61.65	3.32%
20-30	75.04	0-30	136.69	7.37%
30-40	102.23	0-40	238.92	12.88%
40-50	122.84	0-50	361.76	19.50%
50-60	135.59	0-60	497.35	26.81%
60-70	142.73	0-70	640.08	34.50%
70-80	146.64	0-80	786.72	42.41%
80-90	148.67	0-90	935.39	50.42%
90-100	148.67	0-100	1084.06	58.43%
100-110	146.64	0-110	1230.70	66.34%
110-120	142.73	0-120	1373.43	74.03%
120-130	135.59	0-130	1509.02	81.34%
130-140	122.84	0-140	1631.86	87.96%
140-150	102.23	0-150	1734.09	93.47%
150-160	75.04	0-160	1809.13	97.52%
160-170	46.09	0-170	1855.22	100.00%
170-180	15.56	0-180	1870.78	100.84%

4.2 Goniophotometer Test

LCS/BUG

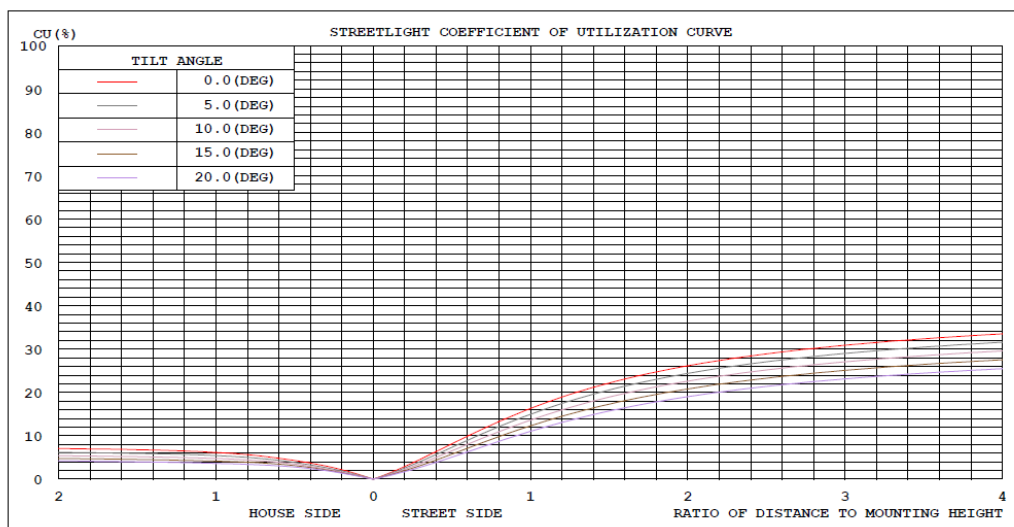


LUMINAIRE CLASSIFICATION SYSTEM (LCS)

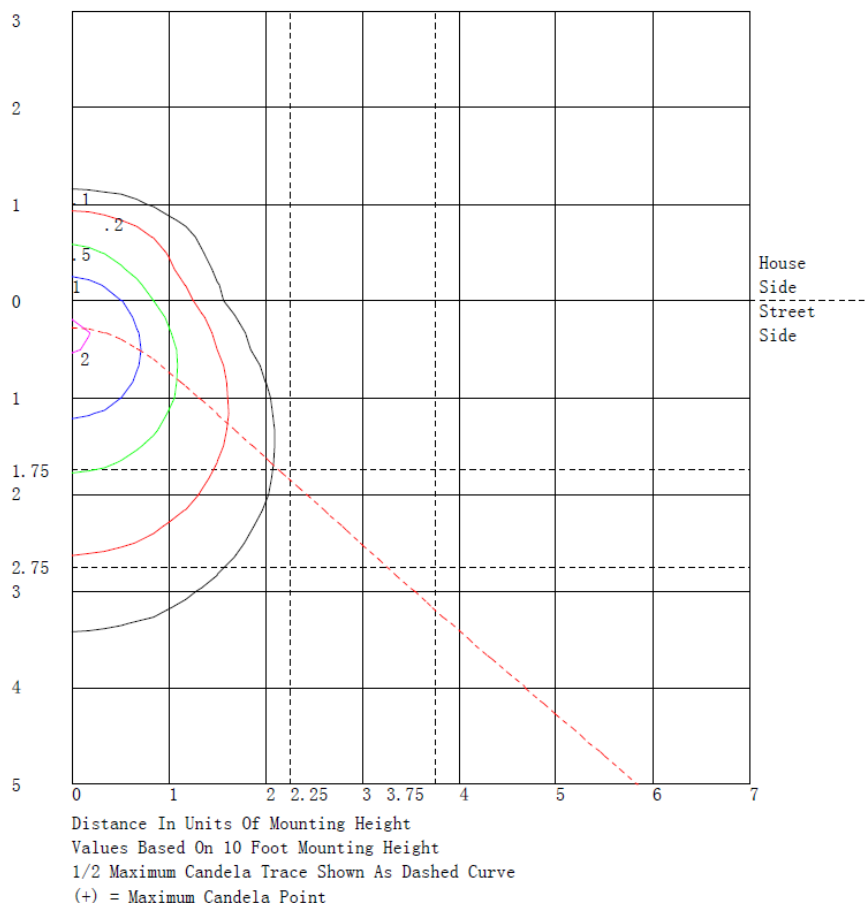
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	90.0	N.A.	4.8
FM - Front-Medium (30-60)	292.6	N.A.	15.6
FH - Front-High (60-80)	265.3	N.A.	14.2
FVH - Front-Very High (80-90)	139.3	N.A.	7.4
BL - Back-Low (0-30)	46.7	N.A.	2.5
BM - Back-Medium (30-60)	68.0	N.A.	3.6
BH - Back-High (60-80)	24.0	N.A.	1.3
BVH - Back-Very High (80-90)	9.4	N.A.	0.5
UL - Uplight-Low (90-100)	148.7	N.A.	7.9
UH - Uplight-High (100-180)	786.7	N.A.	42.1
Total	1870.7	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	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164
5	162	168	173	177	181	183	185	183	181	177	173	168	162	157	152	148	145	144	144
10	160	171	182	192	202	206	207	206	202	192	182	171	160	150	140	132	127	124	123
15	159	174	192	209	221	230	235	230	221	209	192	174	159	142	128	117	109	105	104
20	151	174	201	223	241	251	257	251	241	223	201	174	151	130	115	102	94.0	90.4	90.1
25	144	173	204	235	258	272	279	272	258	235	204	173	144	119	100	89.3	83.9	81.6	81.6
30	137	173	210	246	276	294	302	294	276	246	210	173	137	109	88.3	80.1	78.2	77.5	78.1
35	124	166	213	255	291	315	324	315	291	255	213	166	124	94.9	78.9	74.9	74.5	72.6	71.7
40	111	158	211	265	306	336	346	336	306	265	211	158	111	82.5	71.7	71.4	65.1	58.0	56.5
45	98.2	150	210	269	321	355	365	355	321	269	210	150	98.2	71.6	66.6	62.8	51.5	45.2	44.0
50	84.0	137	205	274	334	372	385	372	334	274	205	137	84.0	63.0	61.6	50.0	40.5	35.1	33.8
55	69.8	122	196	279	344	387	403	387	344	279	196	122	69.8	55.6	52.6	38.8	30.9	26.6	25.4
60	55.6	105	187	278	352	403	420	403	352	278	187	105	55.6	49.1	41.2	29.5	21.6	17.9	17.3
65	46.6	92.7	177	278	361	416	435	416	361	278	177	92.7	46.6	41.4	31.9	21.8	17.7	17.0	16.6
70	37.5	79.7	165	277	367	426	445	426	367	277	165	79.7	37.5	32.8	25.6	18.4	17.5	16.6	16.3
75	28.5	65.7	154	274	371	434	456	434	371	274	154	65.7	28.5	24.1	20.3	18.3	17.3	15.8	15.7
80	20.3	62.3	147	271	375	441	463	441	375	271	147	62.3	20.3	22.3	19.0	18.1	16.2	15.0	15.0
85	12.2	59.7	143	271	377	445	467	445	377	271	143	59.7	12.2	21.4	19.9	18.2	16.2	13.9	13.4
90	3.99	56.7	136	267	376	447	469	447	376	267	136	56.7	3.99	20.6	20.8	18.5	17.2	15.3	15.4
95	12.2	59.7	143	271	377	445	467	445	377	271	143	59.7	12.2	21.4	19.9	18.2	16.2	13.9	13.4
100	20.3	62.3	147	271	375	441	463	441	375	271	147	62.3	20.3	22.3	19.0	18.1	16.2	15.0	15.0
105	28.5	65.7	154	274	371	434	456	434	371	274	154	65.7	28.5	24.1	20.3	18.3	17.3	15.8	15.7
110	37.5	79.7	165	277	367	426	445	426	367	277	165	79.7	37.5	32.8	25.6	18.4	17.5	16.6	16.3
115	46.6	92.7	177	278	361	416	435	416	361	278	177	92.7	46.6	41.4	31.9	21.8	17.7	17.0	16.6
120	55.6	105	187	278	352	403	420	403	352	278	187	105	55.6	49.1	41.2	29.5	21.6	17.9	17.3
125	69.8	122	196	279	344	387	403	387	344	279	196	122	69.8	55.6	52.6	38.8	30.9	26.6	25.4
130	84.0	137	205	274	334	372	385	372	334	274	205	137	84.0	63.0	61.6	50.0	40.5	35.1	33.8
135	98.2	150	210	269	321	355	365	355	321	269	210	150	98.2	71.6	66.6	62.8	51.5	45.2	44.0
140	111	158	211	265	306	336	346	336	306	265	211	158	111	82.5	71.7	71.4	65.1	58.0	56.5
145	124	166	213	255	291	315	324	315	291	255	213	166	124	94.9	78.9	74.9	74.5	72.6	71.7
150	137	173	210	246	276	294	302	294	276	246	210	173	137	109	88.3	80.1	78.2	77.5	78.1
155	144	173	204	235	258	272	279	272	258	235	204	173	144	119	100	89.3	83.9	81.6	81.6
160	151	174	201	223	241	251	257	251	241	223	201	174	151	130	115	102	94.0	90.4	90.1
165	159	174	192	209	221	230	235	230	221	209	192	174	159	142	128	117	109	105	104
170	160	171	182	192	202	206	207	206	202	192	182	171	160	150	140	132	127	124	123
175	162	168	173	177	181	183	185	183	181	177	173	168	162	157	152	148	145	144	144
180	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	164	164	164	164	164														
5	144	145	148	152	157														
10	124	127	132	140	150														
15	105	109	117	128	142														
20	90.4	94.0	102	115	130														
25	81.6	83.9	89.3	100	119														
30	77.5	78.2	80.1	88.3	109														
35	72.6	74.5	74.9	78.9	94.9														
40	58.0	65.1	71.4	71.7	82.5														
45	45.2	51.5	62.8	66.6	71.6														
50	35.1	40.5	50.0	61.6	63.0														
55	26.6	30.9	38.8	52.6	55.6														
60	17.9	21.6	29.5	41.2	49.1														
65	17.0	17.7	21.8	31.9	41.4														
70	16.6	17.5	18.4	25.6	32.8														
75	15.8	17.3	18.3	20.3	24.1														
80	15.0	16.2	18.1	19.0	22.3														
85	13.9	16.2	18.2	19.9	21.4														
90	15.3	17.2	18.5	20.8	20.6														
95	13.9	16.2	18.2	19.9	21.4														
100	15.0	16.2	18.1	19.0	22.3														
105	15.8	17.3	18.3	20.3	24.1														
110	16.6	17.5	18.4	25.6	32.8														
115	17.0	17.7	21.8	31.9	41.4														
120	17.9	21.6	29.5	41.2	49.1														
125	26.6	30.9	38.8	52.6	55.6														
130	35.1	40.5	50.0	61.6	63.0														
135	45.2	51.5	62.8	66.6	71.6														
140	58.0	65.1	71.4	71.7	82.5														
145	72.6	74.5	74.9	78.9	94.9														
150	77.5	78.2	80.1	88.3	109														
155	81.6	83.9	89.3	100	119														
160	90.4	94.0	102	115	130														
165	105	109	117	128	142														
170	124	127	132	140	150														
175	144	145	148	152	157														
180	164	164	164	164	164														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	V1-18B @16W5000K	Sample ID	250728006-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	0.133	15.8	0.994	6.71
277.0	60	0.060	15.7	0.945	15.80

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*****