

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: 2025-08-21

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		1225
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	102.9
			N/A	N/A	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		11.9
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	6.23
				277V	26.71
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	0.990
				277V	0.883
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	2725±145	2767
			4 steps	2725±83	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		93.4
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		26.6%
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		0.049
(Goniophotometer – Section 4.2)			Non-Worst Case		0.098
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		11.9
(Goniophotometer – Section 4.2)			Non-Worst Case		11.7

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-08-10	V1-18B @12W2700K	-	250728006-S1
2	Goniophotometer Test	2025-08-10	V1-18B @12W2700K	-	250728006-S1
3	THD and PF Test	2025-08-10	V1-18B @12W2700K	-	250728006-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. V1-18B @12W2700K, 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 @12W2700K	Sample ID	250728006-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

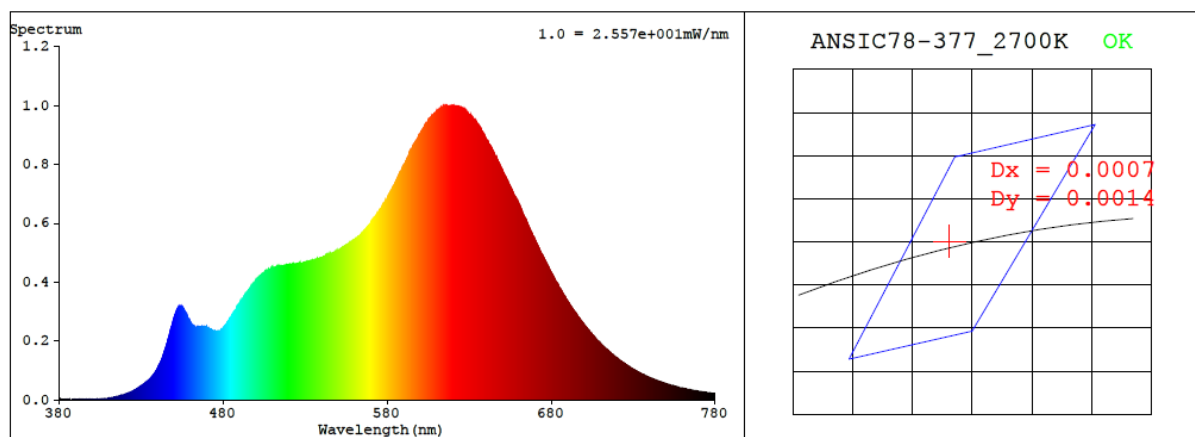
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.098	11.7	0.990
277.0	60	0.049	11.9	0.883

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
2767	93.4	63	0.0004	2.1	91	96	-4%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4552$ $y = 0.4107$ / $u' = 0.2595$ $v' = 0.5267$ ($duv=4.49e-04$)

CCT= 2767K Prcp WL: Ld=583.7nm Purity=59.9%

Peak WL: Lp=615nm FWHM: =125.9nm Ratio:R=26.8% G=70.0% B=3.2%

Render Index: Ra = 93.4 AvgR = 91.5 TM30:Rf=91 Rg=97

EEI: 0.13984 A+

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

R8 =82 R9 =63 R10=93 R11=94 R12=88 R13=99 R14=97 R15=91

4.1 Integrating Sphere Test

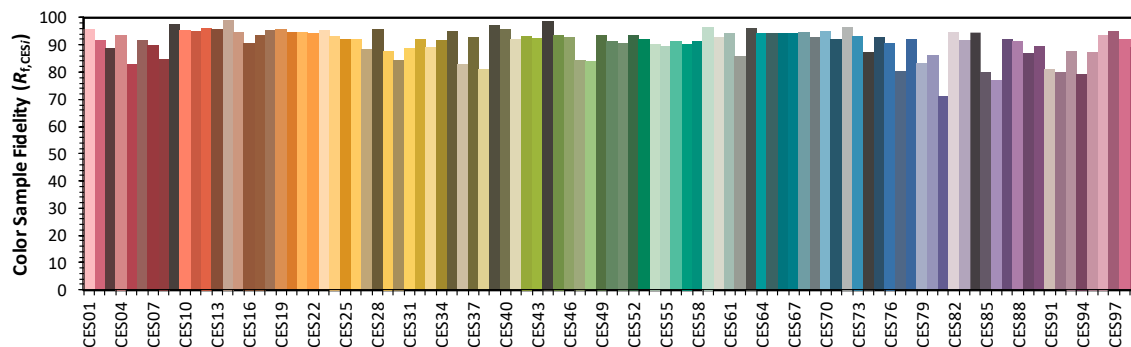
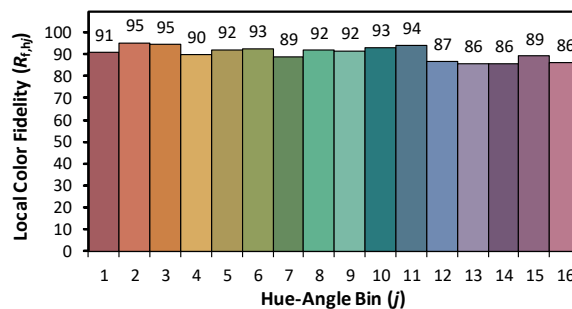
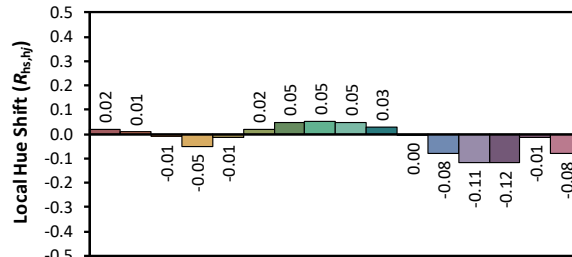
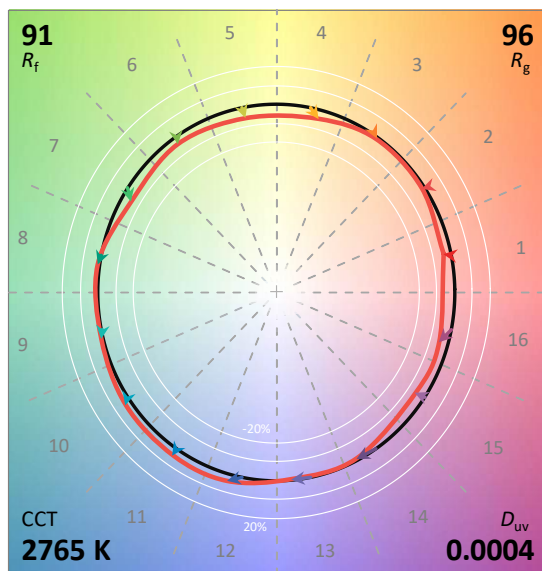
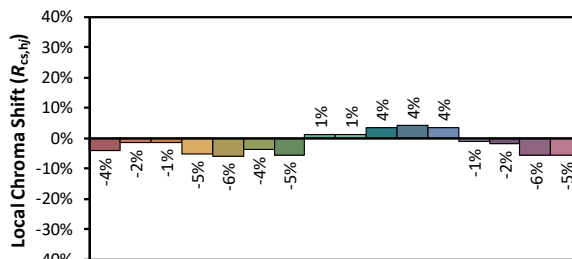
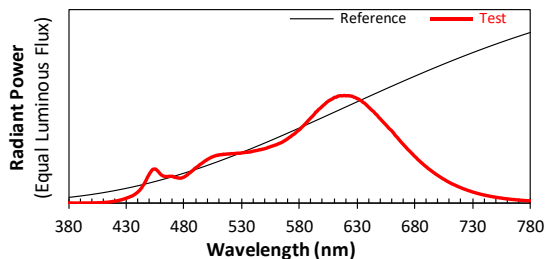
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/8/21

Model: V1-18B @12W2700K



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

x 0.4553
 y 0.4106
 u' 0.2595
 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	3.50E-06	447	2.16E-04	514	4.56E-04	581	6.95E-04	648	8.06E-04	715	1.66E-04
381	2.40E-06	448	2.39E-04	515	4.53E-04	582	7.06E-04	649	7.93E-04	716	1.62E-04
382	2.10E-06	449	2.57E-04	516	4.56E-04	583	7.16E-04	650	7.83E-04	717	1.57E-04
383	1.50E-06	450	2.76E-04	517	4.56E-04	584	7.26E-04	651	7.70E-04	718	1.52E-04
384	1.10E-06	451	2.92E-04	518	4.58E-04	585	7.38E-04	652	7.60E-04	719	1.47E-04
385	1.30E-06	452	3.07E-04	519	4.56E-04	586	7.49E-04	653	7.48E-04	720	1.43E-04
386	1.30E-06	453	3.15E-04	520	4.60E-04	587	7.61E-04	654	7.37E-04	721	1.38E-04
387	1.10E-06	454	3.16E-04	521	4.60E-04	588	7.73E-04	655	7.25E-04	722	1.34E-04
388	1.50E-06	455	3.17E-04	522	4.60E-04	589	7.84E-04	656	7.14E-04	723	1.30E-04
389	2.00E-06	456	3.09E-04	523	4.60E-04	590	7.96E-04	657	7.01E-04	724	1.27E-04
390	1.90E-06	457	2.98E-04	524	4.62E-04	591	8.05E-04	658	6.90E-04	725	1.23E-04
391	1.20E-06	458	2.87E-04	525	4.63E-04	592	8.17E-04	659	6.81E-04	726	1.18E-04
392	1.90E-06	459	2.74E-04	526	4.64E-04	593	8.29E-04	660	6.71E-04	727	1.15E-04
393	1.80E-06	460	2.64E-04	527	4.65E-04	594	8.45E-04	661	6.58E-04	728	1.12E-04
394	1.80E-06	461	2.55E-04	528	4.63E-04	595	8.52E-04	662	6.44E-04	729	1.08E-04
395	1.70E-06	462	2.52E-04	529	4.65E-04	596	8.65E-04	663	6.29E-04	730	1.04E-04
396	1.30E-06	463	2.47E-04	530	4.68E-04	597	8.74E-04	664	6.19E-04	731	1.01E-04
397	1.80E-06	464	2.48E-04	531	4.68E-04	598	8.82E-04	665	6.07E-04	732	9.85E-05
398	2.00E-06	465	2.47E-04	532	4.71E-04	599	8.93E-04	666	5.94E-04	733	9.46E-05
399	2.40E-06	466	2.48E-04	533	4.72E-04	600	9.03E-04	667	5.81E-04	734	9.21E-05
400	2.40E-06	467	2.50E-04	534	4.73E-04	601	9.12E-04	668	5.68E-04	735	8.91E-05
401	2.40E-06	468	2.49E-04	535	4.73E-04	602	9.21E-04	669	5.57E-04	736	8.63E-05
402	2.50E-06	469	2.48E-04	536	4.76E-04	603	9.32E-04	670	5.45E-04	737	8.36E-05
403	3.00E-06	470	2.50E-04	537	4.75E-04	604	9.40E-04	671	5.33E-04	738	8.08E-05
404	2.80E-06	471	2.43E-04	538	4.78E-04	605	9.48E-04	672	5.22E-04	739	7.81E-05
405	3.50E-06	472	2.39E-04	539	4.81E-04	606	9.56E-04	673	5.10E-04	740	7.61E-05
406	4.40E-06	473	2.39E-04	540	4.83E-04	607	9.60E-04	674	4.98E-04	741	7.34E-05
407	3.70E-06	474	2.35E-04	541	4.86E-04	608	9.66E-04	675	4.88E-04	742	7.15E-05
408	4.90E-06	475	2.35E-04	542	4.88E-04	609	9.72E-04	676	4.78E-04	743	6.91E-05
409	5.30E-06	476	2.33E-04	543	4.90E-04	610	9.81E-04	677	4.66E-04	744	6.72E-05
410	6.00E-06	477	2.33E-04	544	4.92E-04	611	9.84E-04	678	4.56E-04	745	6.47E-05
411	7.40E-06	478	2.35E-04	545	4.97E-04	612	9.85E-04	679	4.44E-04	746	6.24E-05
412	7.80E-06	479	2.40E-04	546	4.96E-04	613	9.94E-04	680	4.33E-04	747	6.12E-05
413	8.50E-06	480	2.44E-04	547	4.99E-04	614	9.95E-04	681	4.24E-04	748	5.90E-05
414	9.70E-06	481	2.51E-04	548	5.02E-04	615	9.97E-04	682	4.12E-04	749	5.73E-05
415	1.11E-05	482	2.58E-04	549	5.04E-04	616	9.98E-04	683	4.01E-04	750	5.52E-05
416	1.23E-05	483	2.67E-04	550	5.07E-04	617	9.96E-04	684	3.93E-04	751	5.32E-05
417	1.38E-05	484	2.77E-04	551	5.10E-04	618	9.99E-04	685	3.81E-04	752	5.21E-05
418	1.58E-05	485	2.83E-04	552	5.15E-04	619	1.00E-03	686	3.73E-04	753	5.01E-05
419	1.71E-05	486	2.92E-04	553	5.19E-04	620	9.97E-04	687	3.64E-04	754	4.92E-05
420	1.88E-05	487	3.02E-04	554	5.21E-04	621	9.98E-04	688	3.54E-04	755	4.74E-05
421	2.05E-05	488	3.09E-04	555	5.26E-04	622	9.98E-04	689	3.45E-04	756	4.55E-05
422	2.29E-05	489	3.22E-04	556	5.29E-04	623	9.97E-04	690	3.36E-04	757	4.40E-05
423	2.49E-05	490	3.28E-04	557	5.33E-04	624	9.96E-04	691	3.28E-04	758	4.24E-05
424	2.79E-05	491	3.36E-04	558	5.37E-04	625	9.93E-04	692	3.18E-04	759	4.14E-05
425	3.02E-05	492	3.43E-04	559	5.40E-04	626	9.91E-04	693	3.11E-04	760	4.05E-05
426	3.36E-05	493	3.54E-04	560	5.43E-04	627	9.85E-04	694	3.02E-04	761	3.92E-05
427	3.64E-05	494	3.62E-04	561	5.49E-04	628	9.81E-04	695	2.95E-04	762	3.79E-05
428	4.02E-05	495	3.68E-04	562	5.53E-04	629	9.77E-04	696	2.86E-04	763	3.63E-05
429	4.38E-05	496	3.76E-04	563	5.57E-04	630	9.70E-04	697	2.79E-04	764	3.53E-05
430	4.76E-05	497	3.84E-04	564	5.62E-04	631	9.67E-04	698	2.71E-04	765	3.43E-05
431	5.16E-05	498	3.93E-04	565	5.66E-04	632	9.60E-04	699	2.64E-04	766	3.36E-05
432	5.53E-05	499	3.98E-04	566	5.75E-04	633	9.53E-04	700	2.57E-04	767	3.22E-05
433	6.00E-05	500	4.06E-04	567	5.80E-04	634	9.48E-04	701	2.50E-04	768	3.09E-05
434	6.41E-05	501	4.11E-04	568	5.87E-04	635	9.36E-04	702	2.42E-04	769	3.04E-05
435	6.84E-05	502	4.18E-04	569	5.94E-04	636	9.31E-04	703	2.36E-04	770	2.91E-05
436	7.49E-05	503	4.24E-04	570	6.02E-04	637	9.23E-04	704	2.28E-04	771	2.83E-05
437	8.15E-05	504	4.29E-04	571	6.10E-04	638	9.11E-04	705	2.23E-04	772	2.74E-05
438	8.91E-05	505	4.32E-04	572	6.16E-04	639	9.02E-04	706	2.17E-04	773	2.65E-05
439	9.75E-05	506	4.37E-04	573	6.25E-04	640	8.90E-04	707	2.10E-04	774	2.59E-05
440	1.07E-04	507	4.40E-04	574	6.34E-04	641	8.81E-04	708	2.03E-04	775	2.45E-05
441	1.17E-04	508	4.45E-04	575	6.40E-04	642	8.70E-04	709	1.98E-04	776	2.43E-05
442	1.29E-04	509	4.44E-04	576	6.48E-04	643	8.60E-04	710	1.92E-04	777	2.35E-05
443	1.43E-04	510	4.50E-04	577	6.58E-04	644	8.52E-04	711	1.86E-04	778	2.27E-05
444	1.61E-04	511	4.49E-04	578	6.68E-04	645	8.41E-04	712	1.80E-04	779	2.27E-05
445	1.76E-04	512	4.51E-04	579	6.76E-04	646	8.28E-04	713	1.76E-04	780	2.28E-05
446	1.96E-04	513	4.51E-04	580	6.83E-04	647	8.19E-04	714	1.71E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	V1-18B @12W2700K	Sample ID	250728006-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	24.9	Humidity (%RH)	42.6

Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using a type C goniophotometer and software.</p> <p>The ambient temperature shall be maintained at $25 \pm 1^\circ\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample.</p> <p>The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.</p> <p>The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1.0° vertical intervals and 15° horizontal intervals.</p>

Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	277.0	60	0.049	11.9	0.883
NON-WORST CASE	120.0	60	0.098	11.7	0.990

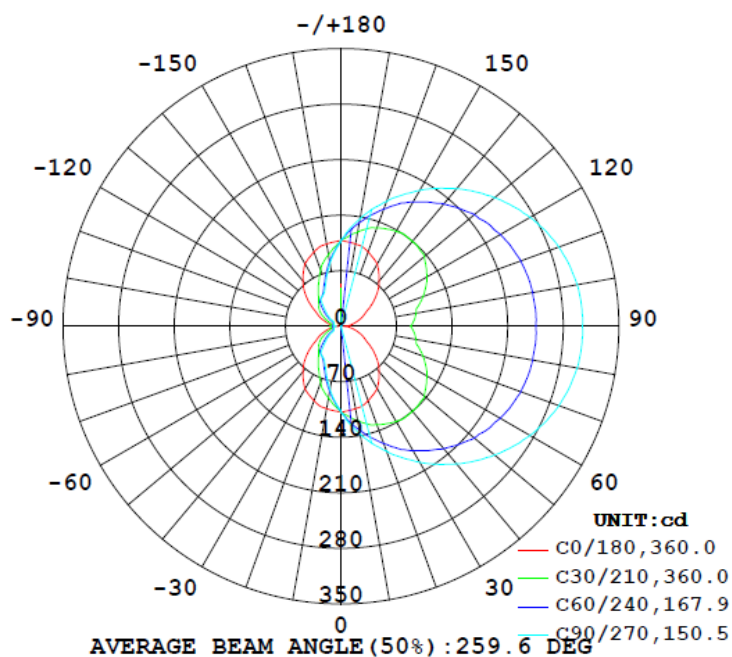
Test Result

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°)	
1225	87.8	155.6	180.0	97.6	102.9	26.6%	B0-U4-G1

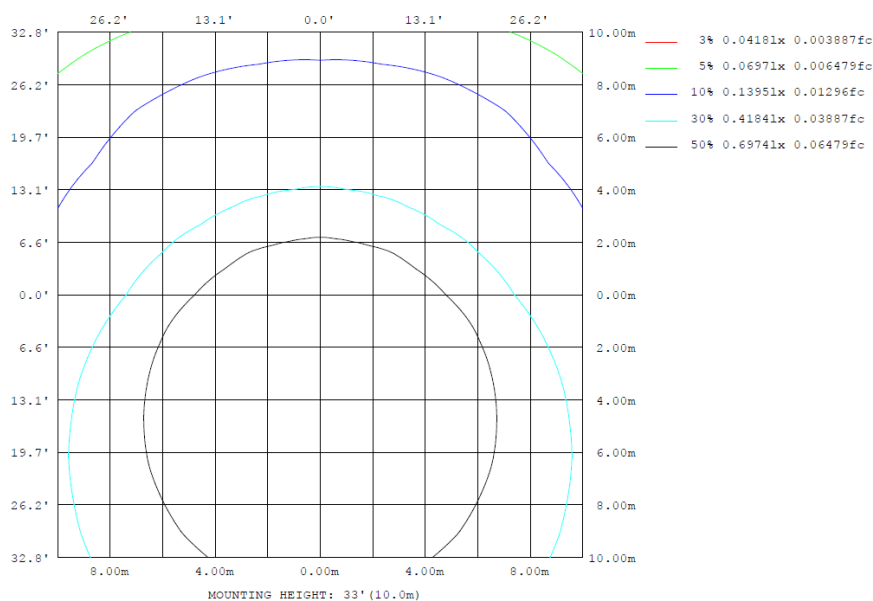
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

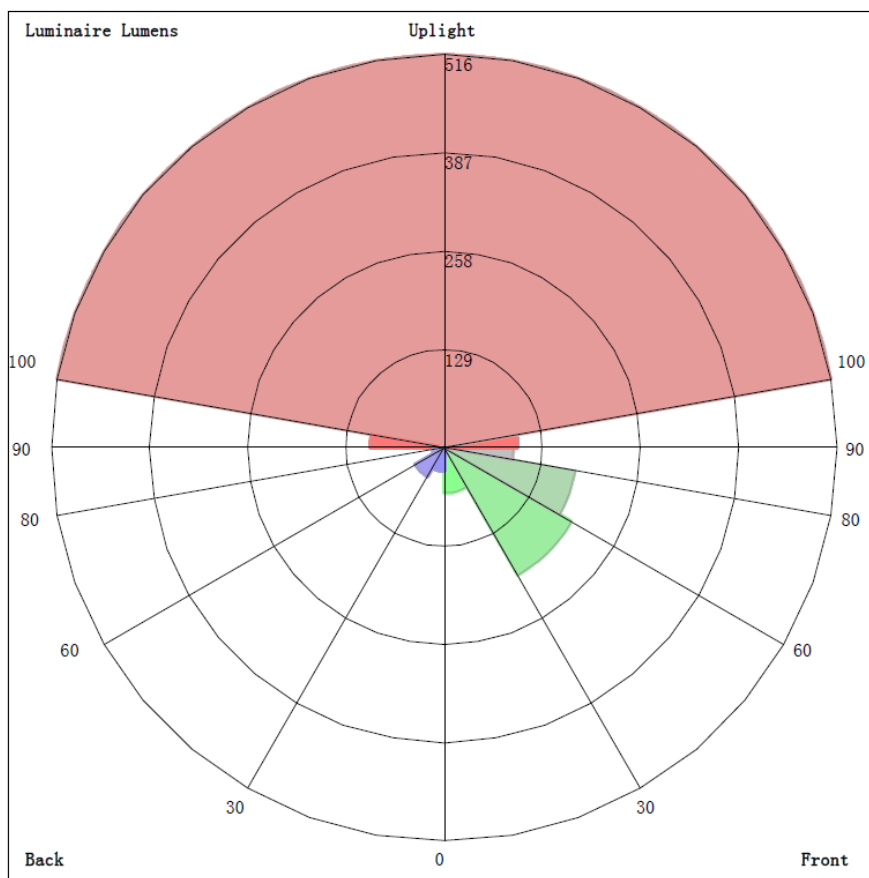
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	105.5	127.5	137.4	127.5	105.5	87.08	80.92	87.08	0- 10	10.26	10.26	0.84,0.84
20	99.81	146.6	167.4	146.6	99.81	67.08	57.02	67.08	10- 20	30.30	40.56	3.31,3.31
30	91.13	161.2	197.9	161.2	91.13	49.55	45.50	49.55	20- 30	49.01	89.56	7.31,7.31
40	74.64	173.3	226.3	173.3	74.64	41.89	37.00	41.89	30- 40	66.59	156.2	12.7,12.7
50	56.55	180.4	252.5	180.4	56.55	33.32	22.02	33.32	40- 50	80.55	236.7	19.3,19.3
60	36.87	183.5	274.9	183.5	36.87	19.98	10.69	19.98	50- 60	89.13	325.8	26.6,26.6
70	24.74	182.5	292.1	182.5	24.74	11.31	9.684	11.31	60- 70	93.73	419.6	34.3,34.3
80	13.61	178.4	302.1	178.4	13.61	11.23	8.730	11.23	70- 80	95.96	515.5	42.1,42.1
90	3.483	173.9	303.9	173.9	3.483	12.33	9.894	12.33	80- 90	96.98	612.5	50.50
100	13.61	178.4	302.1	178.4	13.61	11.23	8.730	11.23	90-100	96.98	709.5	57.9,57.9
110	24.74	182.5	292.1	182.5	24.74	11.31	9.684	11.31	100-110	95.96	805.5	65.7,65.7
120	36.87	183.5	274.9	183.5	36.87	19.98	10.69	19.98	110-120	93.73	899.2	73.4,73.4
130	56.55	180.4	252.5	180.4	56.55	33.32	22.02	33.32	120-130	89.13	988.3	80.7,80.7
140	74.64	173.3	226.3	173.3	74.64	41.89	37.00	41.89	130-140	80.55	1069	87.3,87.3
150	91.13	161.2	197.9	161.2	91.13	49.55	45.50	49.55	140-150	66.59	1135	92.7,92.7
160	99.81	146.6	167.4	146.6	99.81	67.08	57.02	67.08	150-160	49.01	1184	96.7,96.7
170	105.5	127.5	137.4	127.5	105.5	87.08	80.92	87.08	160-170	30.30	1215	99.2,99.2
180	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	170-180	10.26	1225	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	10.26	0-10	10.26	0.84%
10-20	30.30	0-20	40.56	3.34%
20-30	49.01	0-30	89.57	7.37%
30-40	66.59	0-40	156.16	12.86%
40-50	80.55	0-50	236.71	19.49%
50-60	89.13	0-60	325.84	26.82%
60-70	93.73	0-70	419.57	34.54%
70-80	95.96	0-80	515.53	42.44%
80-90	96.98	0-90	612.51	50.42%
90-100	96.98	0-100	709.49	58.41%
100-110	95.96	0-110	805.45	66.31%
110-120	93.73	0-120	899.18	74.02%
120-130	89.13	0-130	988.31	81.36%
130-140	80.55	0-140	1068.86	87.99%
140-150	66.59	0-150	1135.45	93.47%
150-160	49.01	0-160	1184.46	97.51%
160-170	30.30	0-170	1214.76	100.00%
170-180	10.26	0-180	1225.02	100.84%

4.2 Goniophotometer Test

LCS/BUG

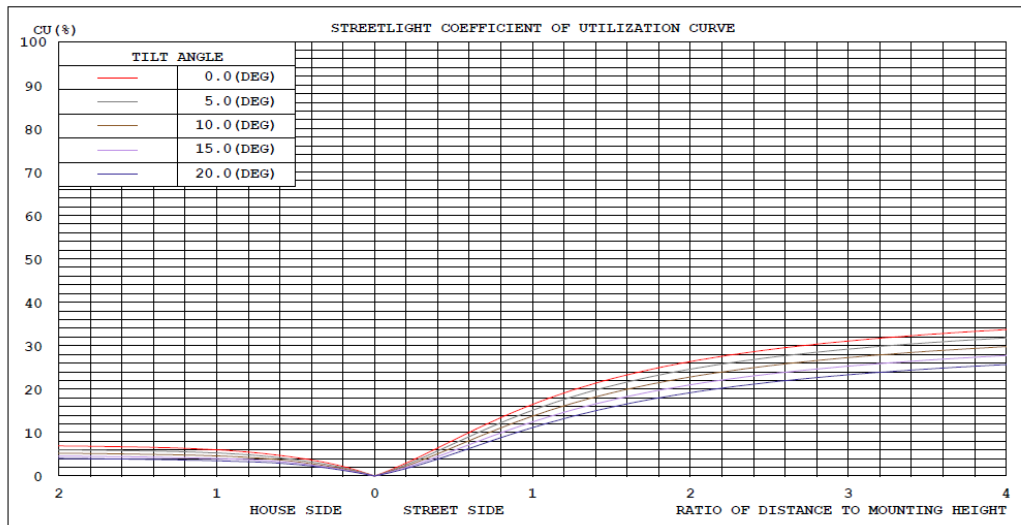


LUMINAIRE CLASSIFICATION SYSTEM (LCS)

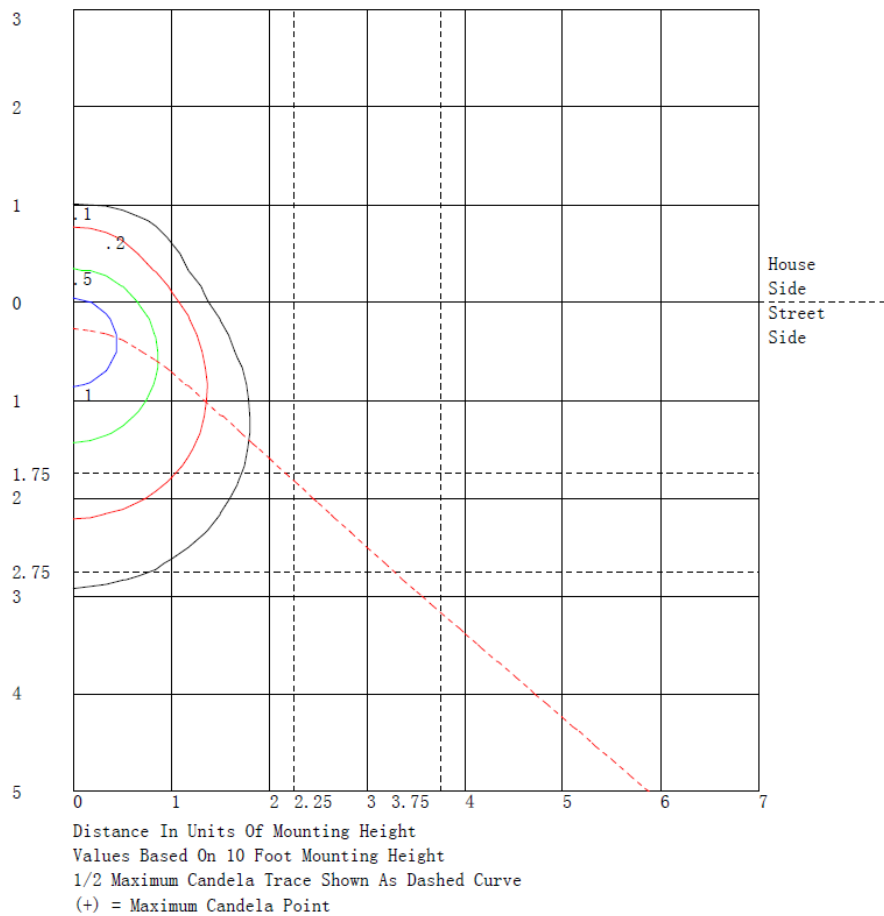
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	59.3	N.A.	4.8
FM - Front-Medium (30-60)	192.9	N.A.	15.8
FH - Front-High (60-80)	174.4	N.A.	14.2
FVH - Front-Very High (80-90)	90.8	N.A.	7.4
BL - Back-Low (0-30)	30.2	N.A.	2.5
BM - Back-Medium (30-60)	43.3	N.A.	3.5
BH - Back-High (60-80)	15.3	N.A.	1.2
BVH - Back-Very High (80-90)	6.2	N.A.	0.5
UL - Uplight-Low (90-100)	97.0	N.A.	7.9
UH - Uplight-High (100-180)	515.5	N.A.	42.1
Total	1224.9	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	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
5	107	111	114	118	121	122	123	122	121	118	114	111	107	103	99.9	97.3	95.3	94.5	94.4
10	105	113	121	127	133	136	137	136	133	127	121	113	105	98.2	91.9	87.1	83.5	81.2	80.9
15	104	116	127	137	145	151	153	151	145	137	127	116	104	93.2	84.6	76.7	71.5	68.4	68.0
20	99.8	116	132	147	157	165	167	165	157	147	132	116	99.8	86.2	75.3	67.1	60.5	57.4	57.0
25	95.5	116	136	154	170	179	183	179	170	154	136	116	95.5	79.1	65.7	57.2	52.1	49.5	49.2
30	91.1	115	138	161	181	193	198	193	181	161	138	115	91.1	71.7	57.4	49.5	46.6	45.3	45.5
35	82.9	111	140	168	191	207	212	207	191	168	140	111	82.9	62.5	50.0	44.6	43.8	44.0	44.0
40	74.6	107	140	173	201	220	226	220	201	173	140	107	74.6	53.8	43.8	41.9	41.5	38.4	37.0
45	66.4	102	139	178	210	232	240	232	210	178	139	102	66.4	45.8	39.6	38.9	34.3	30.2	28.6
50	56.6	92.8	137	180	219	243	252	243	219	180	137	92.8	56.6	39.6	36.7	33.3	26.8	23.3	22.0
55	46.7	82.4	131	184	226	254	264	254	226	184	131	82.4	46.7	34.3	32.5	26.0	20.6	17.6	16.7
60	36.9	71.7	125	184	232	263	275	263	232	184	125	71.7	36.9	29.7	27.2	20.0	14.5	11.5	10.7
65	30.8	62.9	118	183	237	272	284	272	237	183	118	62.9	30.8	25.6	21.4	14.2	11.0	10.2	9.95
70	24.7	53.6	110	182	241	279	292	279	241	182	110	53.6	24.7	21.2	16.9	11.3	10.6	10.2	9.68
75	18.7	43.7	101	180	243	284	298	284	243	180	101	43.7	18.7	16.6	12.9	11.1	10.5	9.55	9.40
80	13.6	41.1	96.0	178	245	287	302	287	245	178	96.0	41.1	13.6	15.4	12.1	11.2	10.3	9.57	8.73
85	8.55	39.0	92.5	177	246	289	304	289	246	177	92.5	39.0	8.55	14.6	13.2	11.8	10.5	9.11	8.12
90	3.48	36.6	87.8	174	245	289	304	289	245	174	87.8	36.6	3.48	14.0	14.2	12.3	11.1	9.81	9.89
95	8.55	39.0	92.5	177	246	289	304	289	246	177	92.5	39.0	8.55	14.6	13.2	11.8	10.5	9.11	8.12
100	13.6	41.1	96.0	178	245	287	302	287	245	178	96.0	41.1	13.6	15.4	12.1	11.2	10.3	9.57	8.73
105	18.7	43.7	101	180	243	284	298	284	243	180	101	43.7	18.7	16.6	12.9	11.1	10.5	9.55	9.40
110	24.7	53.6	110	182	241	279	292	279	241	182	110	53.6	24.7	21.2	16.9	11.3	10.6	10.2	9.68
115	30.8	62.9	118	183	237	272	284	272	237	183	118	62.9	30.8	25.6	21.4	14.2	11.0	10.2	9.95
120	36.9	71.7	125	184	232	263	275	263	232	184	125	71.7	36.9	29.7	27.2	20.0	14.5	11.5	10.7
125	46.7	82.4	131	184	226	254	264	254	226	184	131	82.4	46.7	34.3	32.5	26.0	20.6	17.6	16.7
130	56.6	92.8	137	180	219	243	252	243	219	180	137	92.8	56.6	39.6	36.7	33.3	26.8	23.3	22.0
135	66.4	102	139	178	210	232	240	232	210	178	139	102	66.4	45.8	39.6	38.9	34.3	30.2	28.6
140	74.6	107	140	173	201	220	226	220	201	173	140	107	74.6	53.8	43.8	41.9	41.5	38.4	37.0
145	82.9	111	140	168	191	207	212	207	191	168	140	111	82.9	62.5	50.0	44.6	43.8	44.0	44.0
150	91.1	115	138	161	181	193	198	193	181	161	138	115	91.1	71.7	57.4	49.5	46.6	45.3	45.5
155	95.5	116	136	154	170	179	183	179	170	154	136	116	95.5	79.1	65.7	57.2	52.1	49.5	49.2
160	99.8	116	132	147	157	165	167	165	157	147	132	116	99.8	86.2	75.3	67.1	60.5	57.4	57.0
165	104	116	127	137	145	151	153	151	145	137	127	116	104	93.2	84.6	76.7	71.5	68.4	68.0
170	105	113	121	127	133	136	137	136	133	127	121	113	105	98.2	91.9	87.1	83.5	81.2	80.9
175	107	111	114	118	121	122	123	122	121	118	114	111	107	103	99.9	97.3	95.3	94.5	94.4
180	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	108	108	108	108	108														
5	94.5	95.3	97.3	99.9	103														
10	81.2	83.5	87.1	91.9	98.2														
15	68.4	71.5	76.7	84.6	93.2														
20	57.4	60.5	67.1	75.3	86.2														
25	49.5	52.1	57.2	65.7	79.1														
30	45.3	46.6	49.5	57.4	71.7														
35	44.0	43.8	44.6	50.0	62.5														
40	38.4	41.5	41.9	43.8	53.8														
45	30.2	34.3	38.9	39.6	45.8														
50	23.3	26.8	33.3	36.7	39.6														
55	17.6	20.6	26.0	32.5	34.3														
60	11.5	14.5	20.0	27.2	29.7														
65	10.2	11.0	14.2	21.4	25.6														
70	10.2	10.6	11.3	16.9	21.2														
75	9.55	10.5	11.1	12.9	16.6														
80	9.57	10.3	11.2	12.1	15.4														
85	9.11	10.5	11.8	13.2	14.6														
90	9.81	11.1	12.3	14.2	14.0														
95	9.11	10.5	11.8	13.2	14.6														
100	9.57	10.3	11.2	12.1	15.4														
105	9.55	10.5	11.1	12.9	16.6														
110	10.2	10.6	11.3	16.9	21.2														
115	10.2	11.0	14.2	21.4	25.6														
120	11.5	14.5	20.0	27.2	29.7														
125	17.6	20.6	26.0	32.5	34.3														
130	23.3	26.8	33.3	36.7	39.6														
135	30.2	34.3	38.9	39.6	45.8														
140	38.4	41.5	41.9	43.8	53.8														
145	44.0	43.8	44.6	50.0	62.5														
150	45.3	46.6	49.5	57.4	71.7														
155	49.5	52.1	57.2	65.7	79.1														
160	57.4	60.5	67.1	75.3	86.2														
165	68.4	71.5	76.7	84.6	93.2														
170	81.2	83.5	87.1	91.9	98.2														
175	94.5	95.3	97.3	99.9	103														
180	108	108	108	108	108														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	V1-18B @12W2700K	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	0.098	11.7	0.990	6.23
277.0	60	0.049	11.9	0.883	26.71

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*****