

Photometric Test Report

Relevant Standards

- ☒ ANSI/IES LM-79-19
- ☒ ANSI C82.77-2020

Prepared For

RAB Lighting Inc.

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Date: 2025-12-10

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Issue Date: 2025-12-10

Revised Date: N/A

1.0 Test Summary

DLC Technical Requirements V6.0

Track or Mono-Point Luminaires				
Requirement Category	Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)	ANSI/IES LM-79-19	≥250lm		821
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79-19	Standard	Premium	85.5
		95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)	ANSI/IES LM-79-19	Worst Case		9.6
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	12.55
Power Factor (THD & PF – Section 4.3)	ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.975
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)	ANSI/IES LM-79-19	7 steps	3045±175	3034
		4 steps	3045±100	
Chromaticity (D _{uv}) (Integrating Sphere – Section 4.1)	ANSI/IES LM-79-19	7 steps	0.0001±0.0060	-0.0005
		4 steps	0.0001±0.0033	
Minimum CRI (Integrating Sphere – Section 4.1)	ANSI/IES LM-79 19 CIE13.3-1995	≥80		95.3
Minimum R9 (Integrating Sphere – Section 4.1)	ANSI/IES LM-79-19 CIE13.3-1995	≥0		71
Minimum Rf (Integrating Sphere – Section 4.1)	ANSI/IES TM-30-24	≥70		92
Minimum Rg (Integrating Sphere – Section 4.1)	ANSI/IES TM-30-24	≥89		98
IES Rcs,h1 (Integrating Sphere – Section 4.1)	ANSI/IES TM-30-24	-12%≤IES Rcs,h1≤+23%		-4%
Zonal Lumen Requirement (0°-90°) (Goniophotometer – Section 4.2)	ANSI/IES LM-79-19	≥ 85%		100.0%
Input Voltage (V)				
(Goniophotometer – Section 4.2)	ANSI/IES LM-79-19	Worst Cast		120.0
(Goniophotometer – Section 4.2)		Non-Worst Case		N/A
Input Current (A)				
(Goniophotometer – Section 4.2)	ANSI/IES LM-79-19	Worst Case		0.082
(Goniophotometer – Section 4.2)		Non-Worst Case		N/A
Power (Input Wattage – W)				
(Goniophotometer – Section 4.2)	ANSI/IES LM-79-19	Worst Case		9.6
(Goniophotometer – Section 4.2)		Non-Worst Case		N/A

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-12-08	PIVOTMB @10W3000K	-	250903027-S1
2	Goniophotometer Test	2025-12-08	PIVOTMB @10W3000K	-	250903027-S1
3	THD and PF Test	2025-12-08	PIVOTMB @10W3000K	-	250903027-S1

Remark (If any):

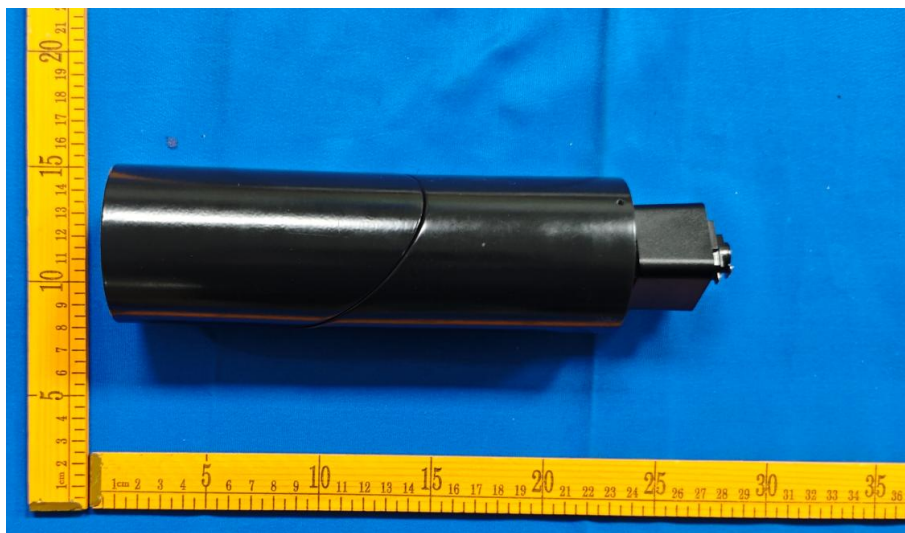
1. The results contained in this report pertain only to the tested samples.
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3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. PIVOTMB @10W3000K, color tunable from 2700K, 3000K, 3500K, 4000K and 5000K.

Electrical Specification: 120Vac, 60Hz

Photos of Luminaire Characteristics



4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test

Model No.	PIVOTMB @10W3000K	Sample ID	250903027-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

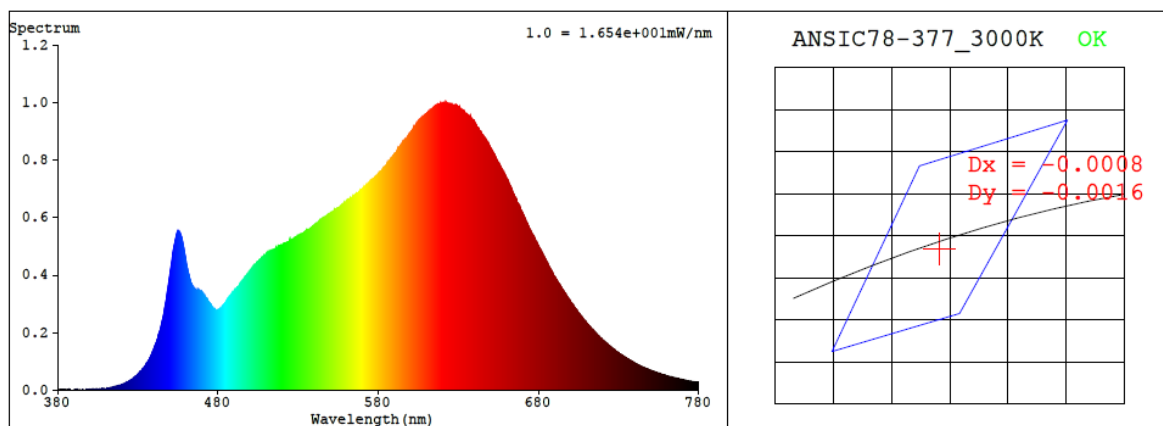
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.082	9.6	0.975

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3034	95.3	71	-0.0005	0.8	92	98	-4%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4338$ $y = 0.4016$ / $u' = 0.2496$ $v' = 0.5199$ ($duv = -5.45e-04$)

CCT= 3034K Prcp WL: Ld=582.9nm Purity=50.7%

Peak WL: Lp=622nm FWHM: =160.4nm Ratio:R=24.6% G=72.0% B=3.4%

Render Index: Ra = 95.3 AvgR = 93.8 TM30:Rf=93 Rg=99

EEL: 0.15082 A+

R1 =97 R2 =100 R3 =98 R4 =96 R5 =97 R6 =96 R7 =92

R8 =86 R9 =71 R10=99 R11=98 R12=85 R13=98 R14=100 R15=93

4.1 Integrating Sphere Test

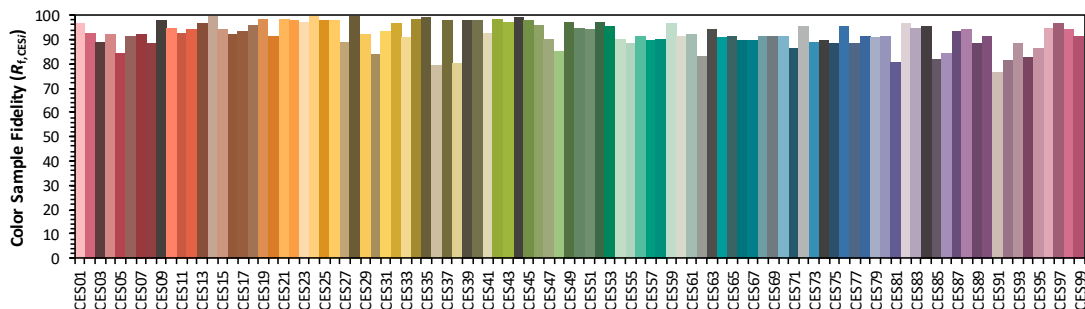
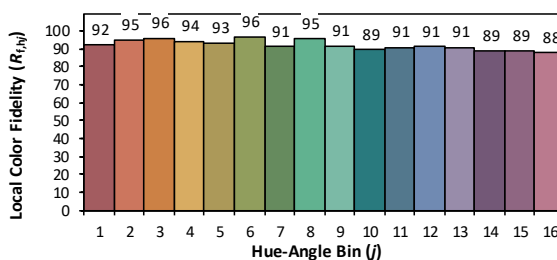
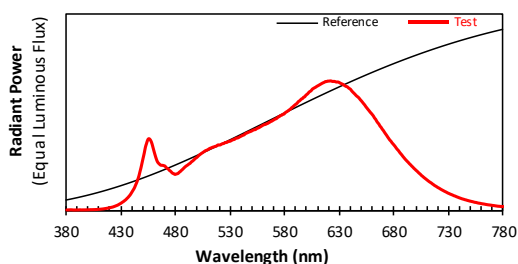
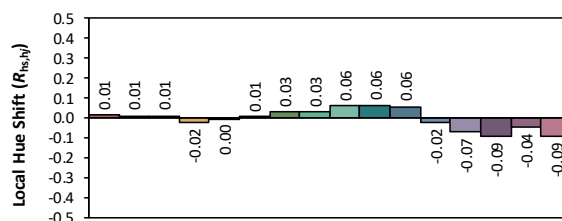
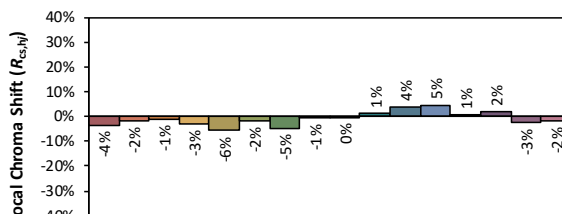
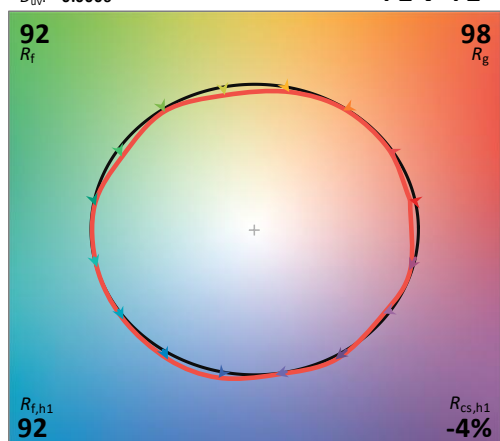
ANSI/IES TM-30-24 Color Rendition Report

Source: BXRV-TR-2750G-20A0-A-2x
Date: 2025/12/10
Notes: N/A

Make: RAB Lighting Inc.
Model: PIVOTMB @10W3000K
Other: N/A

CCT: 3033 K
 D_{uv} : -0.0006

P2 V- F2



TM-30 Advanced Calculator Version 2.04

Created

2025/12/10

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	1.10E-03	447	2.96E-01	514	4.87E-01	581	7.58E-01	648	8.64E-01	715	2.03E-01
381	1.80E-03	448	3.29E-01	515	4.90E-01	582	7.63E-01	649	8.53E-01	716	1.97E-01
382	1.90E-03	449	3.67E-01	516	4.93E-01	583	7.70E-01	650	8.44E-01	717	1.91E-01
383	2.60E-03	450	4.05E-01	517	4.95E-01	584	7.76E-01	651	8.33E-01	718	1.86E-01
384	2.60E-03	451	4.42E-01	518	5.02E-01	585	7.82E-01	652	8.23E-01	719	1.81E-01
385	2.20E-03	452	4.86E-01	519	5.04E-01	586	7.91E-01	653	8.13E-01	720	1.75E-01
386	1.20E-03	453	5.14E-01	520	5.03E-01	587	7.97E-01	654	8.00E-01	721	1.71E-01
387	1.20E-03	454	5.40E-01	521	5.06E-01	588	8.06E-01	655	7.89E-01	722	1.65E-01
388	1.40E-03	455	5.52E-01	522	5.11E-01	589	8.13E-01	656	7.79E-01	723	1.60E-01
389	1.40E-03	456	5.48E-01	523	5.14E-01	590	8.20E-01	657	7.68E-01	724	1.55E-01
390	1.50E-03	457	5.36E-01	524	5.16E-01	591	8.26E-01	658	7.57E-01	725	1.51E-01
391	1.60E-03	458	5.15E-01	525	5.23E-01	592	8.38E-01	659	7.48E-01	726	1.46E-01
392	2.80E-03	459	4.84E-01	526	5.23E-01	593	8.43E-01	660	7.38E-01	727	1.42E-01
393	1.60E-03	460	4.53E-01	527	5.25E-01	594	8.51E-01	661	7.27E-01	728	1.38E-01
394	1.70E-03	461	4.23E-01	528	5.31E-01	595	8.59E-01	662	7.12E-01	729	1.33E-01
395	2.00E-03	462	3.96E-01	529	5.31E-01	596	8.63E-01	663	7.02E-01	730	1.29E-01
396	1.90E-03	463	3.75E-01	530	5.34E-01	597	8.73E-01	664	6.87E-01	731	1.25E-01
397	2.10E-03	464	3.63E-01	531	5.39E-01	598	8.76E-01	665	6.75E-01	732	1.22E-01
398	2.40E-03	465	3.55E-01	532	5.44E-01	599	8.88E-01	666	6.65E-01	733	1.18E-01
399	2.10E-03	466	3.48E-01	533	5.45E-01	600	8.95E-01	667	6.50E-01	734	1.15E-01
400	3.10E-03	467	3.47E-01	534	5.49E-01	601	9.02E-01	668	6.40E-01	735	1.11E-01
401	3.00E-03	468	3.46E-01	535	5.56E-01	602	9.12E-01	669	6.26E-01	736	1.08E-01
402	3.70E-03	469	3.43E-01	536	5.57E-01	603	9.18E-01	670	6.16E-01	737	1.04E-01
403	3.30E-03	470	3.40E-01	537	5.59E-01	604	9.24E-01	671	6.03E-01	738	1.01E-01
404	3.90E-03	471	3.30E-01	538	5.64E-01	605	9.35E-01	672	5.91E-01	739	9.74E-02
405	3.90E-03	472	3.23E-01	539	5.69E-01	606	9.41E-01	673	5.79E-01	740	9.42E-02
406	4.50E-03	473	3.18E-01	540	5.73E-01	607	9.46E-01	674	5.66E-01	741	9.11E-02
407	4.80E-03	474	3.07E-01	541	5.78E-01	608	9.50E-01	675	5.54E-01	742	8.80E-02
408	4.90E-03	475	3.02E-01	542	5.80E-01	609	9.56E-01	676	5.42E-01	743	8.55E-02
409	6.30E-03	476	2.93E-01	543	5.86E-01	610	9.61E-01	677	5.33E-01	744	8.31E-02
410	6.20E-03	477	2.85E-01	544	5.93E-01	611	9.66E-01	678	5.21E-01	745	8.02E-02
411	7.30E-03	478	2.82E-01	545	5.96E-01	612	9.71E-01	679	5.11E-01	746	7.84E-02
412	8.10E-03	479	2.76E-01	546	6.00E-01	613	9.76E-01	680	5.01E-01	747	7.54E-02
413	9.10E-03	480	2.78E-01	547	6.04E-01	614	9.81E-01	681	4.90E-01	748	7.33E-02
414	1.03E-02	481	2.81E-01	548	6.07E-01	615	9.85E-01	682	4.78E-01	749	7.08E-02
415	1.18E-02	482	2.84E-01	549	6.10E-01	616	9.89E-01	683	4.68E-01	750	6.88E-02
416	1.31E-02	483	2.93E-01	550	6.15E-01	617	9.94E-01	684	4.59E-01	751	6.67E-02
417	1.48E-02	484	2.99E-01	551	6.20E-01	618	9.94E-01	685	4.46E-01	752	6.50E-02
418	1.64E-02	485	3.07E-01	552	6.22E-01	619	9.97E-01	686	4.36E-01	753	6.25E-02
419	1.75E-02	486	3.15E-01	553	6.24E-01	620	9.97E-01	687	4.26E-01	754	6.03E-02
420	1.99E-02	487	3.23E-01	554	6.31E-01	621	9.98E-01	688	4.15E-01	755	5.94E-02
421	2.19E-02	488	3.31E-01	555	6.34E-01	622	9.99E-01	689	4.05E-01	756	5.69E-02
422	2.38E-02	489	3.39E-01	556	6.37E-01	623	9.96E-01	690	3.94E-01	757	5.47E-02
423	2.68E-02	490	3.45E-01	557	6.42E-01	624	9.95E-01	691	3.85E-01	758	5.34E-02
424	2.98E-02	491	3.50E-01	558	6.47E-01	625	9.95E-01	692	3.77E-01	759	5.20E-02
425	3.33E-02	492	3.57E-01	559	6.53E-01	626	9.93E-01	693	3.68E-01	760	5.00E-02
426	3.66E-02	493	3.62E-01	560	6.57E-01	627	9.90E-01	694	3.58E-01	761	4.87E-02
427	4.04E-02	494	3.72E-01	561	6.61E-01	628	9.91E-01	695	3.51E-01	762	4.74E-02
428	4.56E-02	495	3.78E-01	562	6.63E-01	629	9.89E-01	696	3.41E-01	763	4.59E-02
429	5.01E-02	496	3.85E-01	563	6.67E-01	630	9.84E-01	697	3.33E-01	764	4.41E-02
430	5.55E-02	497	3.93E-01	564	6.70E-01	631	9.80E-01	698	3.24E-01	765	4.27E-02
431	6.15E-02	498	4.01E-01	565	6.75E-01	632	9.76E-01	699	3.16E-01	766	4.12E-02
432	6.70E-02	499	4.06E-01	566	6.80E-01	633	9.72E-01	700	3.08E-01	767	4.03E-02
433	7.39E-02	500	4.15E-01	567	6.85E-01	634	9.66E-01	701	3.01E-01	768	3.92E-02
434	8.04E-02	501	4.23E-01	568	6.89E-01	635	9.61E-01	702	2.92E-01	769	3.79E-02
435	8.91E-02	502	4.30E-01	569	6.95E-01	636	9.56E-01	703	2.84E-01	770	3.65E-02
436	9.72E-02	503	4.36E-01	570	6.99E-01	637	9.54E-01	704	2.77E-01	771	3.56E-02
437	1.07E-01	504	4.42E-01	571	7.05E-01	638	9.46E-01	705	2.68E-01	772	3.43E-02
438	1.17E-01	505	4.47E-01	572	7.07E-01	639	9.40E-01	706	2.62E-01	773	3.29E-02
439	1.30E-01	506	4.54E-01	573	7.15E-01	640	9.34E-01	707	2.54E-01	774	3.17E-02
440	1.44E-01	507	4.59E-01	574	7.20E-01	641	9.22E-01	708	2.47E-01	775	3.03E-02
441	1.58E-01	508	4.63E-01	575	7.25E-01	642	9.13E-01	709	2.41E-01	776	2.98E-02
442	1.73E-01	509	4.66E-01	576	7.32E-01	643	9.05E-01	710	2.34E-01	777	2.91E-02
443	1.93E-01	510	4.72E-01	577	7.34E-01	644	8.96E-01	711	2.27E-01	778	2.80E-02
444	2.13E-01	511	4.77E-01	578	7.41E-01	645	8.87E-01	712	2.21E-01	779	2.79E-02
445	2.36E-01	512	4.80E-01	579	7.42E-01	646	8.79E-01	713	2.15E-01	780	2.80E-02
446	2.62E-01	513	4.84E-01	580	7.52E-01	647	8.73E-01	714	2.10E-01	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	PIVOTMB @10W3000K	Sample ID	250903027-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	25.0	Humidity (%RH)	42.1

Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using a type C goniophotometer and software.</p> <p>The ambient temperature shall be maintained at $25\pm1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample.</p> <p>The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.</p> <p>The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1.0° vertical intervals and 15° horizontal intervals.</p>

Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	120.0	60	0.082	9.6	0.975
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

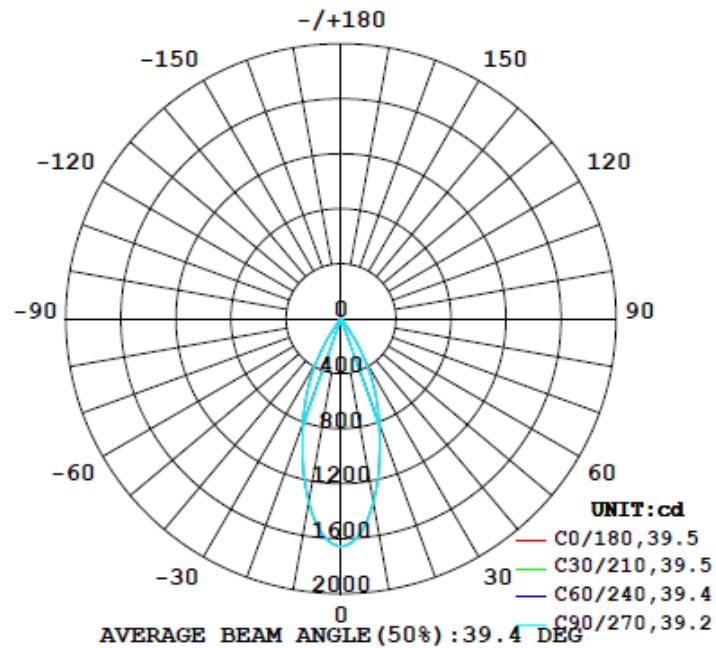
Test Result

Flux (lm)	Field Angle (10%)		Beam Angle (50%)		Luminous Efficacy (lm/W)	Zonal Lumen Requirement
	C0-180	C90-270	C0-180	C90-270		(0°-90°)
821	69.5	68.7	39.5	39.3	85.5	100.0%

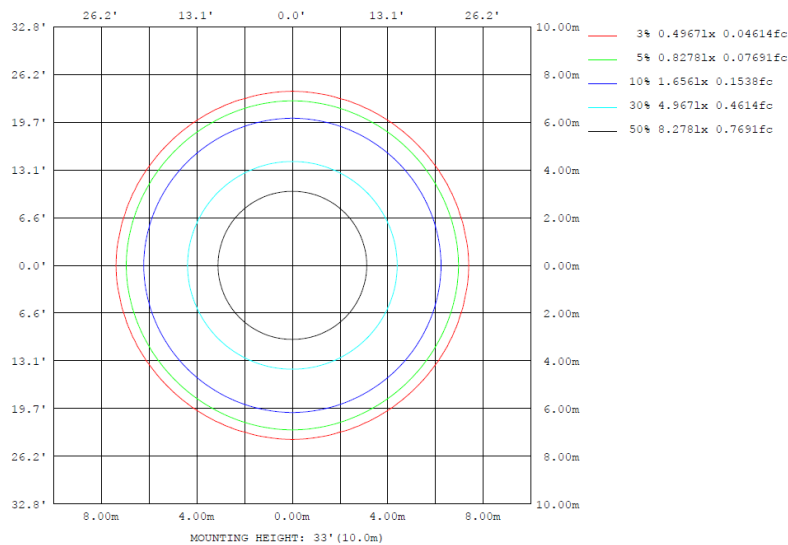
4.2 Goniophotometer Test

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	1360	1353	1354	1353	1360	1353	1354	1353	0- 10	142.9	142.9	17.4,17.4
20	816.0	813.3	808.6	813.3	816.0	813.3	808.6	813.3	10- 20	297.9	440.8	53.7,53.7
30	357.9	349.0	341.7	349.0	357.9	349.0	341.7	349.0	20- 30	262.8	703.6	85.7,85.7
40	34.57	34.24	33.74	34.24	34.57	34.24	33.74	34.24	30- 40	92.14	795.8	96.9,96.9
50	13.10	13.45	13.09	13.45	13.10	13.45	13.09	13.45	40- 50	14.66	810.4	98.7,98.7
60	4.861	4.827	4.636	4.827	4.861	4.827	4.636	4.827	50- 60	7.930	818.4	99.7,99.7
70	0.6681	0.6732	0.6889	0.6732	0.6681	0.6732	0.6889	0.6732	60- 70	2.377	820.7	100,100
80	0.0501	0.0440	0.0384	0.0440	0.0501	0.0440	0.0384	0.0440	70- 80	0.1474	820.9	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0195	820.9	100,100
100	0	0	0	0	0	0	0	0	90-100	0	820.9	100,100
110	0	0	0	0	0	0	0	0	100-110	0	820.9	100,100
120	0	0	0	0	0	0	0	0	110-120	0	820.9	100,100
130	0	0	0	0	0	0	0	0	120-130	0	820.9	100,100
140	0	0	0	0	0	0	0	0	130-140	0	820.9	100,100
150	0	0	0	0	0	0	0	0	140-150	0	820.9	100,100
160	0	0	0	0	0	0	0	0	150-160	0	820.9	100,100
170	0	0	0	0	0	0	0	0	160-170	0	820.9	100,100
180	0	0	0	0	0	0	0	0	170-180	0	820.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	142.93	0-10	142.93	17.41%
10-20	297.91	0-20	440.84	53.70%
20-30	262.80	0-30	703.64	85.71%
30-40	92.14	0-40	795.78	96.94%
40-50	14.66	0-50	810.44	98.72%
50-60	7.93	0-60	818.37	99.69%
60-70	2.38	0-70	820.75	99.98%
70-80	0.15	0-80	820.90	100.00%
80-90	0.02	0-90	820.92	100.00%
90-100	0.00	0-100	820.92	100.00%
100-110	0.00	0-110	820.92	100.00%
110-120	0.00	0-120	820.92	100.00%
120-130	0.00	0-130	820.92	100.00%
130-140	0.00	0-140	820.92	100.00%
140-150	0.00	0-150	820.92	100.00%
150-160	0.00	0-160	820.92	100.00%
160-170	0.00	0-170	820.92	100.00%
170-180	0.00	0-180	820.92	100.00%

4.2 Goniophotometer Test

Luminous Distribution Intensity Data

Table--1																						UNIT: cd			
C (DEG)		0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270					
y (DEG)	0	1656	1655	1656	1655	1655	1655	1655	1655	1655	1655	1656	1655	1656	1655	1656	1655	1655	1655	1655					
	5	1575	1573	1573	1571	1569	1570	1570	1570	1569	1571	1573	1573	1575	1573	1573	1571	1569	1570	1570					
10	10	1360	1359	1355	1353	1352	1352	1354	1352	1352	1353	1355	1359	1360	1359	1355	1353	1352	1352	1354					
15	15	1082	1081	1080	1080	1078	1079	1076	1079	1078	1080	1080	1081	1082	1081	1080	1080	1078	1079	1076					
20	20	816	815	815	813	812	809	809	809	812	813	815	815	816	815	815	813	812	809	809					
25	25 <td>591</td> <td>588</td> <td>584</td> <td>582</td> <td>580</td> <td>579</td> <td>578</td> <td>579</td> <td>580</td> <td>582</td> <td>584</td> <td>588</td> <td>591</td> <td>588</td> <td>584</td> <td>582</td> <td>580</td> <td>579</td> <td>578</td>	591	588	584	582	580	579	578	579	580	582	584	588	591	588	584	582	580	579	578					
30	30	358	355	351	349	348	345	342	345	348	349	351	355	358	355	351	349	348	345	342					
35	35	143	138	132	128	126	129	132	129	126	128	132	138	143	138	132	128	126	129	132					
40	40	34.6	34.5	34.3	34.2	33.9	33.7	33.7	33.7	33.9	34.2	34.3	34.5	34.6	34.5	34.3	34.2	33.9	33.7	33.7					
45	45 <td>17.3</td> <td>17.5</td> <td>17.6</td> <td>17.7</td> <td>17.7</td> <td>17.6</td> <td>17.4</td> <td>17.6</td> <td>17.7</td> <td>17.7</td> <td>17.6</td> <td>17.5</td> <td>17.3</td> <td>17.5</td> <td>17.6</td> <td>17.7</td> <td>17.7</td> <td>17.6</td> <td>17.4</td>	17.3	17.5	17.6	17.7	17.7	17.6	17.4	17.6	17.7	17.7	17.6	17.5	17.3	17.5	17.6	17.7	17.7	17.6	17.4					
50	50	13.1	13.3	13.4	13.4	13.3	13.2	13.1	13.2	13.3	13.4	13.4	13.3	13.1	13.3	13.4	13.4	13.3	13.2	13.1					
55	55	8.86	8.97	9.01	8.99	8.81	8.65	8.63	8.65	8.81	8.99	9.01	8.97	8.86	8.97	9.01	8.99	8.81	8.65	8.63					
60	60	4.86	4.90	4.91	4.83	4.77	4.69	4.64	4.69	4.77	4.83	4.91	4.90	4.86	4.90	4.91	4.83	4.77	4.69	4.64					
65	65	2.27	2.29	2.30	2.27	2.24	2.25	2.20	2.25	2.24	2.27	2.30	2.29	2.27	2.29	2.30	2.27	2.24	2.25	2.20					
70	70	0.67	0.67	0.68	0.67	0.64	0.65	0.69	0.65	0.64	0.67	0.68	0.67	0.67	0.67	0.68	0.67	0.64	0.65	0.69					
75	75 <td>0.09</td> <td>0.09</td> <td>0.08</td> <td>0.08</td> <td>0.08</td> <td>0.07</td> <td>0.07</td> <td>0.07</td> <td>0.08</td> <td>0.08</td> <td>0.08</td> <td>0.09</td> <td>0.09</td> <td>0.09</td> <td>0.08</td> <td>0.08</td> <td>0.08</td> <td>0.07</td> <td>0.07</td>	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07					
80	80 <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.05</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td>	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04					
85	85 <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.01</td> <td>0.01</td>	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01					
90	90 <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
95	95 <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
100	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
105	105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
110	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
115	115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
120	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
125	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
130	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
135	135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
140	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
145	145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
150	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
155	155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
160	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
165	165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
170	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
175	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
180	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					

Table--2												UNIT: cd								
C (DEG)		285	300	315	330	345														
y (DEG)	0	1655	1655	1655	1656	1655														
	5	1570	1569	1571	1573	1573														
10	10	1352	1352	1353	1355	1359														
15	15	1079	1078	1080	1080	1081														
20	20	809	812	813	815	815														
25	25	579	580	582	584	588														
30	30	345	348	349	351	355														
35	35	129	126	128	132	138														
40	40	33.7	33.9	34.2	34.3	34.5														
45	45	17.6	17.7	17.7	17.6	17.5														
50	50	13.2	13.3	13.4	13.4	13.3														
55	55	8.65	8.81	8.99	9.01	8.97														
60	60	4.69	4.77	4.83	4.91	4.90														
65	65	2.25	2.24	2.27	2.30	2.29														
70	70	0.65	0.64	0.67	0.68	0.67														
75	75	0.07	0.08	0.08	0.08	0.09														
80	80	0.04	0.04	0.04	0.05	0.05														
85	85	0.01	0.02	0.02	0.02	0.02														
90	90	0.00	0.00	0.00	0.00	0.00														
95	95	0.00	0.00	0.00	0.00	0.00														
100	100	0.00	0.00	0.00	0.00	0.00														
105	105	0.00	0.00	0.00	0.00	0.00														
110	110	0.00	0.00	0.00	0.00	0.00														
115	115	0.00	0.00	0.00	0.00	0.00														
120	120	0.00	0.00	0.00	0.00	0.00														
125	125	0.00	0.00	0.00	0.00	0.00														
130	130	0.00	0.00	0.00	0.00	0.00														
135	135	0.00	0.00	0.00	0.00	0.00														
140	140	0.00	0.00	0.00	0.00	0.00														
145	145	0.00	0.00	0.00	0.00	0.00														
150	150	0.00	0.00	0.00	0.00	0.00														
155	155	0.00	0.00	0.00	0.00	0.00														
160	160	0.00	0.00	0.00	0.00	0.00														
165	165	0.00	0.00	0.00	0.00	0.00														
170	170	0.00	0.00	0.00	0.00	0.00														
175	175	0.00	0.00	0.00	0.00	0.00														
180	180	0.00	0.00	0.00	0.00	0.00														

Table--2		UNIT: cd									
C (DEG)	y (DEG)	285	300	315	330	345					
		0	5	10	15	20					
0	0	1655	1655	1655	1656	1655					
5	5	1570	1569	1571	1573	1573					
10	10	1352	1352	1353	1355	1359					
15	15	1079	1078	1080	1080	1081					
20	20	809	812	813	815	815					
25	25	579	580	582	584	588					
30	30	345	348	349	351	355					
35	35	129	126	128	132	138					
40	40	33.7	33.9	34.2	34.3	34.5					
45	45	17.6	17.7	17.7	17.6	17.5					
50	50	13.2	13.3	13.4	13.4	13.3					
55	55	8.65	8.81	8.99	9.01	8.97					
60	60	4.69	4.77	4.83	4.91	4.90					
65	65	2.25	2.24	2.27	2.30	2.29					
70	70	0.65	0.64	0.67	0.68	0.67					
75	75	0.07	0.08	0.08	0.08	0.09					
80	80	0.04	0.04	0.04	0.05	0.05					
85	85	0.01	0.02	0.02	0.02	0.02					
90	90	0.00	0.00	0.00	0.00	0.00					
95	95	0.00	0.00	0.00	0.00	0.00					
100	100	0.00	0.00	0.00	0.00	0.00					
105	105	0.00	0.00	0.00	0.00	0.00					
110	110	0.00	0.00	0.00	0.00	0.00					
115	115	0.00	0.00	0.00	0.00	0.00					
120	120	0.00	0.00	0.00	0.00	0.00					
125	125	0.00	0.00	0.00	0.00	0.00					
130	130	0.00	0.00	0.00	0.00	0.00					
135	135	0.00	0.00	0.00	0.00	0.00					
140	140	0.00	0.00	0.00	0.00	0.00					
145	145	0.00	0.00	0.00	0.00	0.00					
150	150	0.00	0.00	0.00	0.00	0.00					
155	155	0.00	0.00	0.00	0.00	0.00					
160	160	0.00	0.00	0.00	0.00	0.00					
165	165	0.00	0.00	0.00	0.00	0.00					
170	170	0.00	0.00	0.00	0.00	0.00					
175	175	0.00	0.00	0.00	0.00	0.00					
180	180	0.00	0.00	0.00	0.00	0.00					

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	PIVOTMB @10W3000K	Sample ID	250903027-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	0.082	9.6	0.975	12.55

5.0 Equipment List:

Equipment ID	Equipment Name	Last Cal.	Due Cal.
NTC-F01-001	Goniophotometer System	2025-11-06	2026-11-05
NTC-F01-006	2.0 meter Integrating Sphere	2025-11-06	2026-11-05
NTC-F01-012	Standard Lamp	2025-10-27	2026-10-26
NTC-F01-013	Standard Lamp	2025-10-27	2026-10-26
NTC-F01-031	Digital Power Meter	2025-08-04	2026-08-03
NTC-F01-019	Temperature & Humidity Meter	2025-10-23	2026-10-22

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