

Photometric Test Report

Relevant Standards

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

Prepared For

RAB Lighting Inc.

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Revised Date: N/A

1.0 Test Summary

DLC Technical Requirements V5.1

Direct Linear Ambient Luminaires					
Requirement Category		Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	375 lm/ft		1134
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	151.1
			115	130	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		15.0
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	6.61
				277V	13.74
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.993
				277V	0.915
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	5029±283	4845
			4 steps	5029±220	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		83.5
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		14
Minimum Rf (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥70		84
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%		-12%
Zonal Lumen Requirement (0°-60°) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	≥40%		62.5%
Discomfort Glare (UGR) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	28.2
			N/A	<22	
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		0.059
(Goniophotometer – Section 4.2)			Non-Worst Case		0.124
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		15.0
(Goniophotometer – Section 4.2)			Non-Worst Case		14.8

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-03-28	STRP2H/MVS @15W5000K	-	250324006-S1
2	Goniophotometer Test	2025-03-28	STRP2H/MVS @15W5000K	-	250324006-S1
3	THD and PF Test	2025-03-28	STRP2H/MVS @15W5000K	-	250324006-S1

Remark (If any):

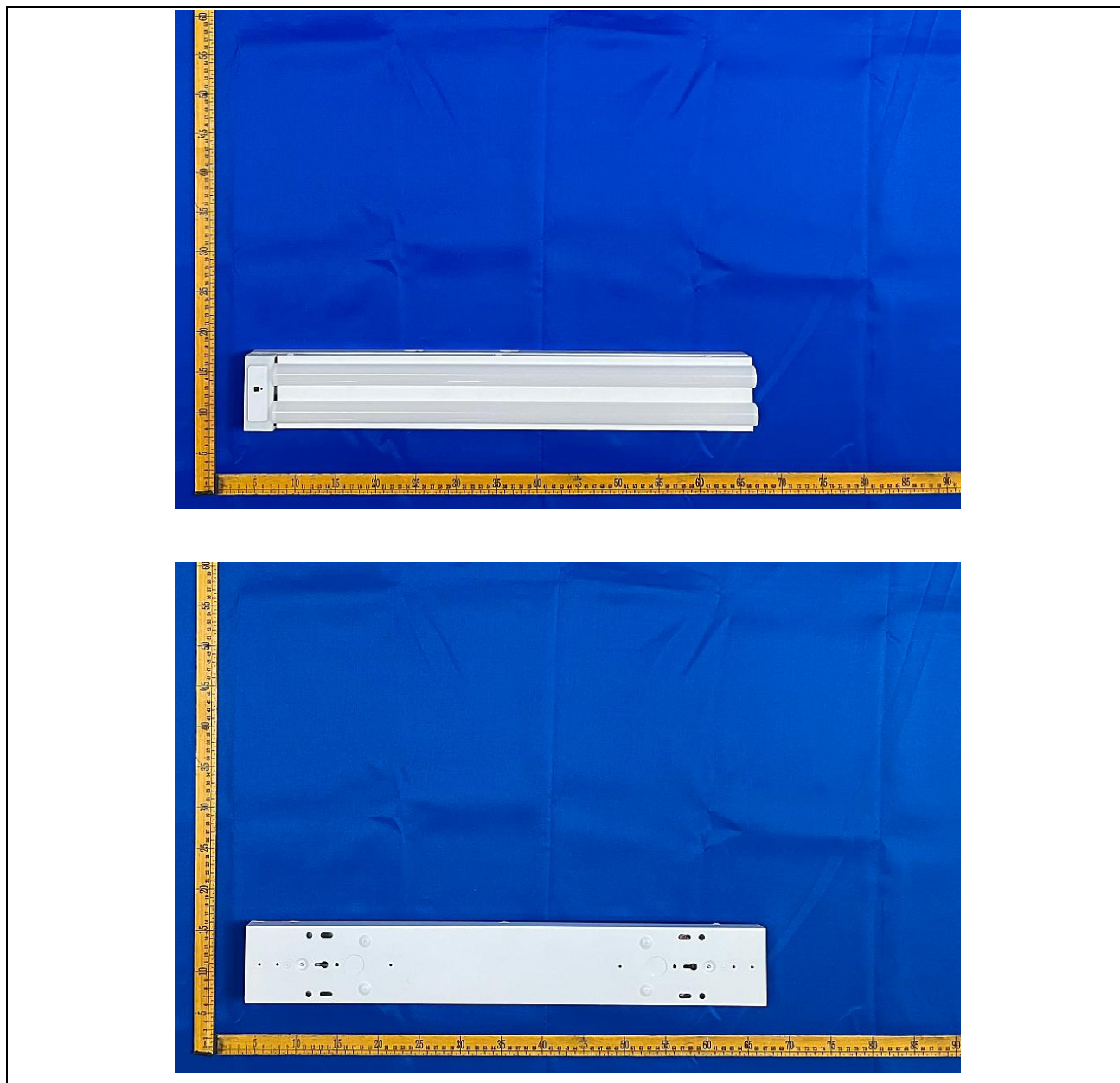
1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
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3.0 Product Description

Luminaire Description: Model No. STRP2H/MVS @15W5000K, color tunable from 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.	STRP2H/MVS @15W5000K	Sample ID	250324006-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.0	Humidity (%RH)	42.6

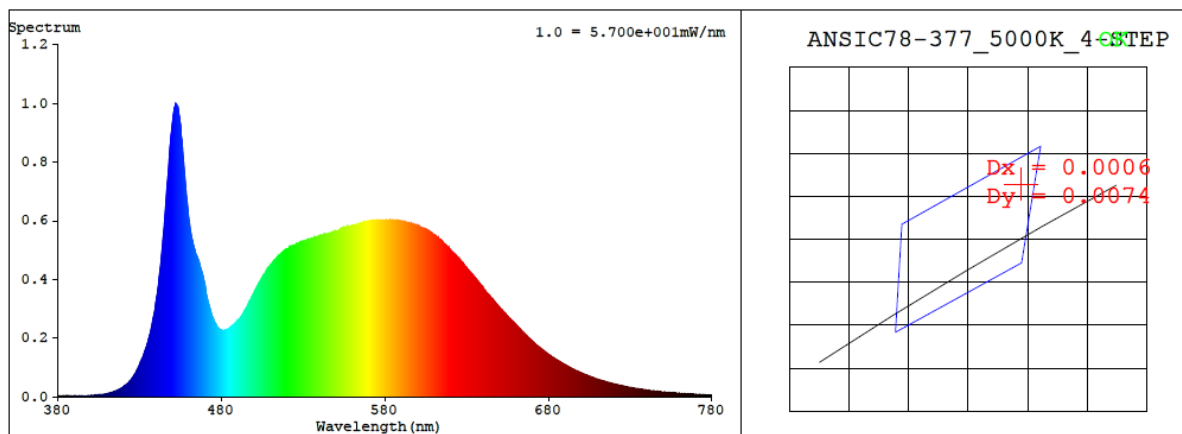
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.124	14.8	0.993
277.0	60	0.059	15.0	0.915

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4845	83.5	14	0.0034	3.5	84	96	-12%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3503$ $y = 0.3626$ / $u' = 0.2107$ $v' = 0.4907$ ($duv=3.40e-03$)

CCT= 4845K Prcp WL: $L_d=571.6nm$ Purity=13.9%

Peak WL: $L_p=452nm$ FWHM: $=20.3nm$ Ratio:R=16.0% G=79.6% B=4.4%

Render Index: $R_a = 83.5$ AvgR = 76.5 TM30:Rf=84 Rg=95

EEL: 0.09491 A++ Highest

R1 =82 R2 =89 R3 =93 R4 =82 R5 =81 R6 =84 R7 =89

R8 =69 R9 =14 R10=73 R11=81 R12=55 R13=84 R14=97 R15=76

4.1 Integrating Sphere Test

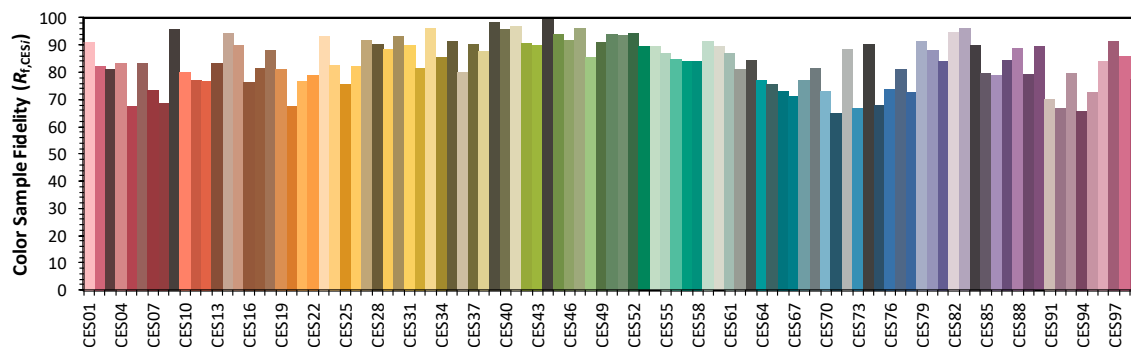
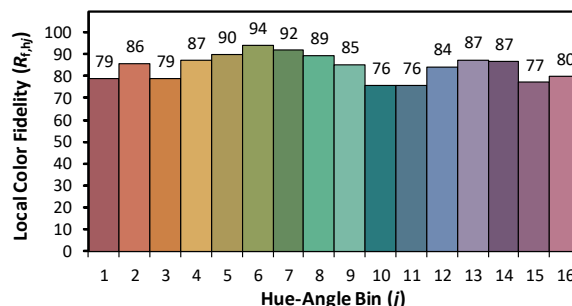
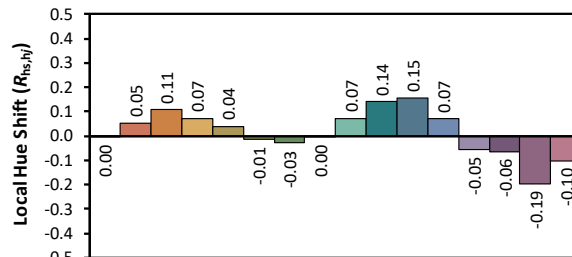
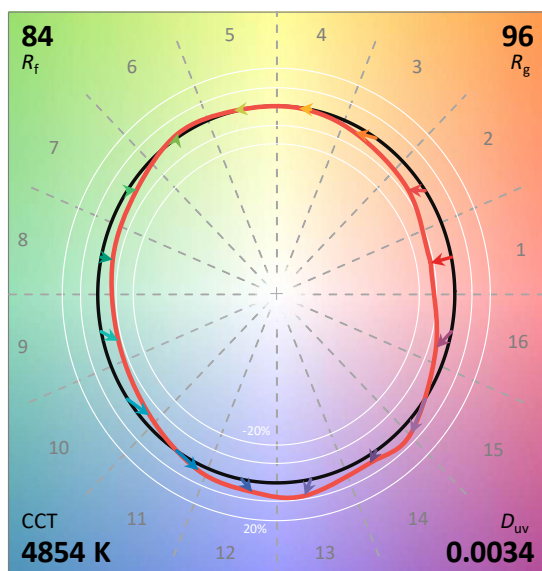
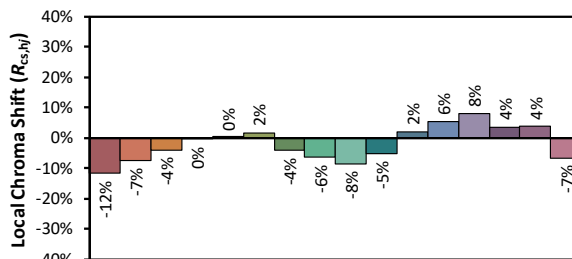
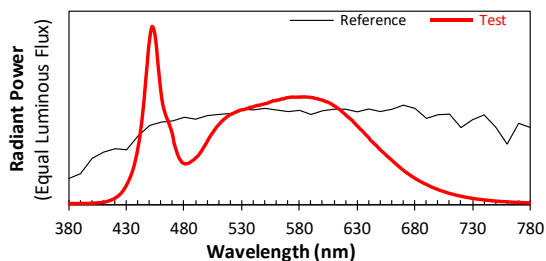
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/4/1

Model: STRP2H/MVS @15W5000K



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

x 0.3502
 y 0.3624
 u' 0.2107
 v' 0.4906

CIE 13.3-1995
(CRI)

R_a 84
 R_g 14

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	4.00E-06	447	7.27E-04	514	4.74E-04	581	6.02E-04	648	3.19E-04	715	5.15E-05
381	3.70E-06	448	8.00E-04	515	4.79E-04	582	6.02E-04	649	3.11E-04	716	5.00E-05
382	3.40E-06	449	8.75E-04	516	4.84E-04	583	6.02E-04	650	3.06E-04	717	4.83E-05
383	3.90E-06	450	9.29E-04	517	4.90E-04	584	6.02E-04	651	2.99E-04	718	4.70E-05
384	2.90E-06	451	9.72E-04	518	4.95E-04	585	6.02E-04	652	2.93E-04	719	4.56E-05
385	3.60E-06	452	9.97E-04	519	5.00E-04	586	6.01E-04	653	2.88E-04	720	4.38E-05
386	3.70E-06	453	9.91E-04	520	5.03E-04	587	6.01E-04	654	2.82E-04	721	4.27E-05
387	2.50E-06	454	9.69E-04	521	5.05E-04	588	6.01E-04	655	2.75E-04	722	4.16E-05
388	2.90E-06	455	9.32E-04	522	5.09E-04	589	6.00E-04	656	2.68E-04	723	3.99E-05
389	3.00E-06	456	8.73E-04	523	5.11E-04	590	5.99E-04	657	2.64E-04	724	3.87E-05
390	4.10E-06	457	7.99E-04	524	5.15E-04	591	5.97E-04	658	2.57E-04	725	3.78E-05
391	3.40E-06	458	7.35E-04	525	5.17E-04	592	5.98E-04	659	2.52E-04	726	3.66E-05
392	3.30E-06	459	6.72E-04	526	5.21E-04	593	5.94E-04	660	2.47E-04	727	3.54E-05
393	3.60E-06	460	6.17E-04	527	5.22E-04	594	5.94E-04	661	2.41E-04	728	3.43E-05
394	3.40E-06	461	5.72E-04	528	5.27E-04	595	5.92E-04	662	2.35E-04	729	3.30E-05
395	3.80E-06	462	5.41E-04	529	5.28E-04	596	5.91E-04	663	2.29E-04	730	3.18E-05
396	3.50E-06	463	5.18E-04	530	5.30E-04	597	5.88E-04	664	2.23E-04	731	3.08E-05
397	3.90E-06	464	4.98E-04	531	5.30E-04	598	5.86E-04	665	2.18E-04	732	3.00E-05
398	3.70E-06	465	4.81E-04	532	5.32E-04	599	5.86E-04	666	2.11E-04	733	2.88E-05
399	4.60E-06	466	4.65E-04	533	5.33E-04	600	5.84E-04	667	2.06E-04	734	2.81E-05
400	4.70E-06	467	4.47E-04	534	5.36E-04	601	5.82E-04	668	2.00E-04	735	2.73E-05
401	5.10E-06	468	4.29E-04	535	5.38E-04	602	5.77E-04	669	1.95E-04	736	2.62E-05
402	5.10E-06	469	4.09E-04	536	5.39E-04	603	5.75E-04	670	1.90E-04	737	2.58E-05
403	6.10E-06	470	3.85E-04	537	5.45E-04	604	5.74E-04	671	1.85E-04	738	2.48E-05
404	6.50E-06	471	3.47E-04	538	5.43E-04	605	5.71E-04	672	1.80E-04	739	2.41E-05
405	7.10E-06	472	3.24E-04	539	5.44E-04	606	5.68E-04	673	1.75E-04	740	2.31E-05
406	7.30E-06	473	3.03E-04	540	5.48E-04	607	5.65E-04	674	1.71E-04	741	2.26E-05
407	8.00E-06	474	2.83E-04	541	5.50E-04	608	5.61E-04	675	1.66E-04	742	2.18E-05
408	8.90E-06	475	2.66E-04	542	5.51E-04	609	5.56E-04	676	1.61E-04	743	2.14E-05
409	9.90E-06	476	2.53E-04	543	5.54E-04	610	5.52E-04	677	1.58E-04	744	2.08E-05
410	1.03E-05	477	2.44E-04	544	5.55E-04	611	5.49E-04	678	1.53E-04	745	1.98E-05
411	1.17E-05	478	2.35E-04	545	5.55E-04	612	5.44E-04	679	1.49E-04	746	1.92E-05
412	1.29E-05	479	2.30E-04	546	5.57E-04	613	5.38E-04	680	1.45E-04	747	1.87E-05
413	1.46E-05	480	2.28E-04	547	5.59E-04	614	5.35E-04	681	1.41E-04	748	1.80E-05
414	1.67E-05	481	2.25E-04	548	5.61E-04	615	5.30E-04	682	1.37E-04	749	1.75E-05
415	1.89E-05	482	2.27E-04	549	5.62E-04	616	5.23E-04	683	1.34E-04	750	1.71E-05
416	2.12E-05	483	2.29E-04	550	5.64E-04	617	5.18E-04	684	1.30E-04	751	1.65E-05
417	2.39E-05	484	2.31E-04	551	5.65E-04	618	5.13E-04	685	1.27E-04	752	1.57E-05
418	2.66E-05	485	2.34E-04	552	5.67E-04	619	5.07E-04	686	1.23E-04	753	1.54E-05
419	2.94E-05	486	2.39E-04	553	5.70E-04	620	5.01E-04	687	1.20E-04	754	1.48E-05
420	3.33E-05	487	2.43E-04	554	5.72E-04	621	4.95E-04	688	1.16E-04	755	1.45E-05
421	3.81E-05	488	2.48E-04	555	5.75E-04	622	4.89E-04	689	1.13E-04	756	1.42E-05
422	4.16E-05	489	2.54E-04	556	5.77E-04	623	4.85E-04	690	1.10E-04	757	1.36E-05
423	4.71E-05	490	2.60E-04	557	5.80E-04	624	4.79E-04	691	1.07E-04	758	1.33E-05
424	5.27E-05	491	2.65E-04	558	5.81E-04	625	4.73E-04	692	1.03E-04	759	1.29E-05
425	5.94E-05	492	2.72E-04	559	5.80E-04	626	4.68E-04	693	1.00E-04	760	1.24E-05
426	6.68E-05	493	2.81E-04	560	5.84E-04	627	4.59E-04	694	9.75E-05	761	1.21E-05
427	7.56E-05	494	2.90E-04	561	5.84E-04	628	4.54E-04	695	9.45E-05	762	1.18E-05
428	8.56E-05	495	2.99E-04	562	5.86E-04	629	4.45E-04	696	9.20E-05	763	1.15E-05
429	9.60E-05	496	3.10E-04	563	5.87E-04	630	4.39E-04	697	8.87E-05	764	1.09E-05
430	1.08E-04	497	3.21E-04	564	5.89E-04	631	4.33E-04	698	8.68E-05	765	1.06E-05
431	1.21E-04	498	3.30E-04	565	5.92E-04	632	4.26E-04	699	8.40E-05	766	1.02E-05
432	1.34E-04	499	3.42E-04	566	5.92E-04	633	4.20E-04	700	8.18E-05	767	1.01E-05
433	1.50E-04	500	3.53E-04	567	5.92E-04	634	4.14E-04	701	7.89E-05	768	9.60E-06
434	1.65E-04	501	3.65E-04	568	5.96E-04	635	4.07E-04	702	7.66E-05	769	9.40E-06
435	1.84E-04	502	3.76E-04	569	5.97E-04	636	4.00E-04	703	7.47E-05	770	9.00E-06
436	2.04E-04	503	3.87E-04	570	5.99E-04	637	3.93E-04	704	7.24E-05	771	8.80E-06
437	2.30E-04	504	3.96E-04	571	5.99E-04	638	3.86E-04	705	6.98E-05	772	8.60E-06
438	2.58E-04	505	4.03E-04	572	6.00E-04	639	3.80E-04	706	6.83E-05	773	8.40E-06
439	2.86E-04	506	4.15E-04	573	6.02E-04	640	3.73E-04	707	6.61E-05	774	8.20E-06
440	3.23E-04	507	4.22E-04	574	6.01E-04	641	3.64E-04	708	6.38E-05	775	7.80E-06
441	3.59E-04	508	4.33E-04	575	6.00E-04	642	3.56E-04	709	6.16E-05	776	7.40E-06
442	4.08E-04	509	4.40E-04	576	6.01E-04	643	3.51E-04	710	6.00E-05	777	7.30E-06
443	4.55E-04	510	4.47E-04	577	6.01E-04	644	3.44E-04	711	5.82E-05	778	7.10E-06
444	5.15E-04	511	4.53E-04	578	6.01E-04	645	3.37E-04	712	5.66E-05	779	7.10E-06
445	5.77E-04	512	4.63E-04	579	6.01E-04	646	3.33E-04	713	5.49E-05	780	7.10E-06
446	6.53E-04	513	4.67E-04	580	6.00E-04	647	3.26E-04	714	5.32E-05	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	STRP2H/MVS @15W5000K	Sample ID	250324006-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	25.0	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	0.059	15.0	0.915
NON-WORST CASE	120.0	60	0.124	14.8	0.993

Test Result

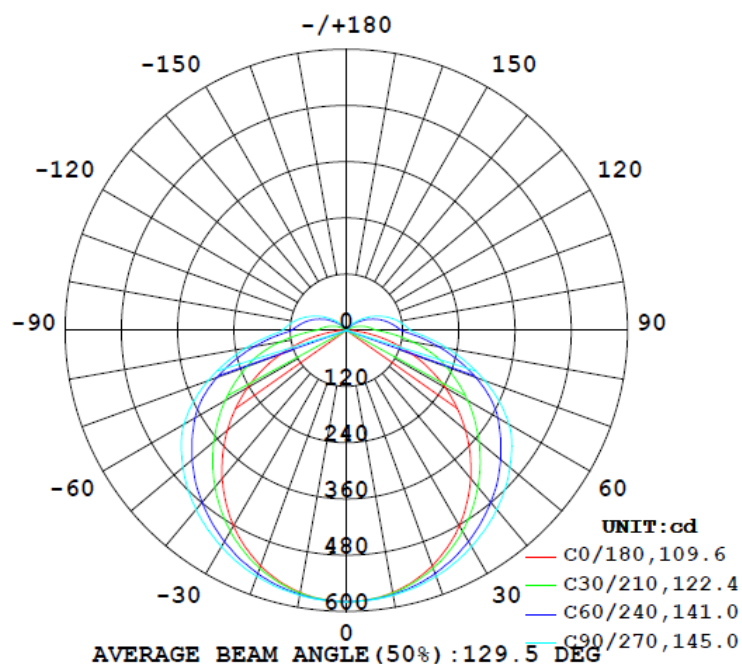
Flux (lm)	Flux per feet (lm/ft)	Field Angle (10%)		Beam Angle (50%)		Luminous Efficacy (lm/W)
		C0-180	C90-270	C0-180	C90-270	
2267	1134	162.1	162.1	109.8	144.8	151.1

Zonal Lumen Requirement	UGR	
(0° - 60°)	Crosswise	Endwise
62.5%	23.0	28.2

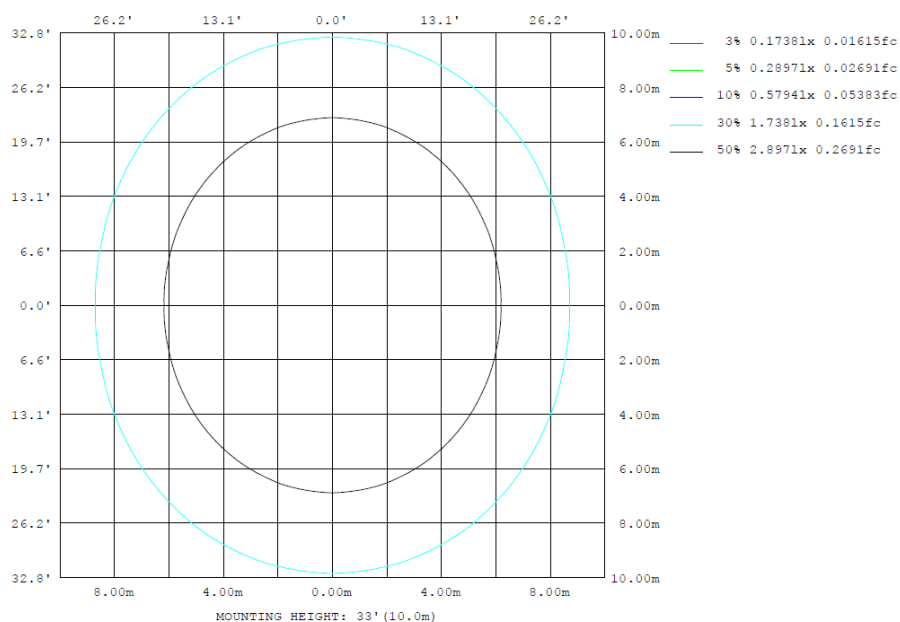
4.2 Goniophotometer Test

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	568.0	571.8	574.2	571.8	568.0	571.8	574.2	571.8	0- 10	54.91	54.91	2.42, 2.42
20	535.3	547.1	558.9	547.1	535.3	547.1	558.9	547.1	10- 20	158.4	213.3	9.41, 9.41
30	481.9	508.3	533.3	508.3	481.9	508.3	533.3	508.3	20- 30	244.0	457.4	20.2, 20.2
40	412.7	457.7	499.1	457.7	412.7	457.7	499.1	457.7	30- 40	302.9	760.3	33.5, 33.5
50	331.5	401.3	455.5	401.3	331.5	401.3	455.5	401.3	40- 50	330.8	1091	48.1, 48.1
60	242.6	338.6	400.1	338.6	242.6	338.6	400.1	338.6	50- 60	326.7	1418	62.5, 62.5
70	149.5	267.9	314.2	267.9	149.5	267.9	314.2	267.9	60- 70	289.6	1707	75.3, 75.3
80	59.99	176.3	218.0	176.3	59.99	176.3	218.0	176.3	70- 80	218.5	1926	85, 85
90	4.852	94.52	136.9	94.52	4.852	94.52	136.9	94.52	80- 90	131.2	2057	90.7, 90.7
100	3.966	72.37	113.3	72.37	3.966	72.37	113.3	72.37	90-100	81.87	2139	94.4, 94.4
110	3.964	50.19	86.43	50.19	3.964	50.19	86.43	50.19	100-110	59.17	2198	97, 97
120	3.963	29.13	58.47	29.13	3.963	29.13	58.47	29.13	110-120	37.45	2235	98.6, 98.6
130	4.071	10.60	32.97	10.60	4.071	10.60	32.97	10.60	120-130	19.61	2255	99.5, 99.5
140	4.100	2.976	10.87	2.976	4.100	2.976	10.87	2.976	130-140	7.563	2263	99.8, 99.8
150	4.128	2.513	1.585	2.513	4.128	2.513	1.585	2.513	140-150	2.072	2265	99.9, 99.9
160	4.057	2.051	1.548	2.051	4.057	2.051	1.548	2.051	150-160	1.138	2266	100, 100
170	4.090	2.034	1.511	2.034	4.090	2.034	1.511	2.034	160-170	0.6454	2267	100, 100
180	4.151	1.953	1.586	1.953	4.151	1.953	1.586	1.953	170-180	0.2200	2267	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	54.91	0-10	54.91	2.42%
10-20	158.42	0-20	213.33	9.41%
20-30	244.02	0-30	457.35	20.18%
30-40	302.92	0-40	760.27	33.54%
40-50	330.77	0-50	1091.04	48.14%
50-60	326.72	0-60	1417.76	62.55%
60-70	289.55	0-70	1707.31	75.33%
70-80	218.48	0-80	1925.79	84.97%
80-90	131.19	0-90	2056.98	90.76%
90-100	81.87	0-100	2138.85	94.37%
100-110	59.17	0-110	2198.02	96.98%
110-120	37.45	0-120	2235.47	98.63%
120-130	19.61	0-130	2255.08	99.50%
130-140	7.56	0-140	2262.64	99.83%
140-150	2.07	0-150	2264.71	99.92%
150-160	1.14	0-160	2265.85	99.97%
160-170	0.65	0-170	2266.50	100.00%
170-180	0.22	0-180	2266.72	100.01%

4.2 Goniophotometer Test

UGR – Uncorrected Table:

UGR TABLE - UNCORRECTED

Reflectances										
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20
Room Size										
UGR Viewed Crosswise										
X=2H	Y=2H	15.7	17.3	16.2	17.7	18.3	18.8	20.3	19.3	20.8
	3H	17.3	18.7	17.8	19.2	19.8	21.4	22.8	21.9	23.3
	4H	17.8	19.2	18.4	19.7	20.3	22.5	23.9	23.1	24.4
	6H	18.2	19.4	18.7	20.0	20.6	23.7	24.9	24.2	25.5
	8H	18.3	19.5	18.8	20.0	20.6	24.3	25.5	24.8	26.0
	12H	18.3	19.5	18.9	20.0	20.6	24.9	26.0	25.4	26.5
UGR Viewed Endwise										
4H	2H	17.0	18.3	17.5	18.8	19.4	19.2	20.6	19.7	21.1
	3H	18.9	20.0	19.4	20.6	21.2	22.1	23.2	22.6	23.8
	4H	19.6	20.6	20.2	21.2	21.8	23.4	24.5	24.0	25.0
	6H	20.1	21.0	20.7	21.6	22.3	24.8	25.7	25.4	26.3
	8H	20.2	21.1	20.8	21.7	22.3	25.4	26.3	26.0	26.9
	12H	20.3	21.1	20.9	21.7	22.4	26.1	26.9	26.7	27.5
8H	4H	20.5	21.4	21.1	22.0	22.6	23.7	24.5	24.3	25.1
	6H	21.2	22.0	21.8	22.6	23.3	25.2	25.9	25.8	26.6
	8H	21.5	22.2	22.1	22.8	23.5	26.0	26.7	26.6	27.3
	12H	21.6	22.3	22.3	22.9	23.6	26.9	27.5	27.5	28.1
12H	4H	20.7	21.5	21.3	22.1	22.8	23.7	24.5	24.3	25.1
	6H	21.6	22.2	22.2	22.9	23.6	25.2	25.9	25.9	26.5
	8H	21.9	22.5	22.6	23.2	23.9	26.1	26.7	26.7	27.3

Maximum UGR = 28.8

UGR – Corrected Table:

UGR TABLE - CORRECTED

Reflectances										
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20
Room Size										
UGR Viewed Crosswise										
X=2H	Y=2H	18.5	20.1	19.0	20.5	21.1	21.6	23.1	22.1	23.6
	3H	20.1	21.5	20.6	22.0	22.6	24.2	25.6	24.7	26.1
	4H	20.6	22.0	21.2	22.5	23.1	25.3	26.7	25.9	27.2
	6H	21.0	22.2	21.5	22.8	23.4	26.5	27.7	27.0	28.3
	8H	21.1	22.3	21.6	22.8	23.4	27.1	28.3	27.6	28.8
	12H	21.1	22.3	21.7	22.8	23.4	27.7	28.8	28.2	29.3
UGR Viewed Endwise										
4H	2H	19.8	21.1	20.3	21.6	22.2	22.0	23.4	22.5	23.9
	3H	21.7	22.8	22.2	23.4	24.0	24.9	26.0	25.4	26.6
	4H	22.4	23.4	23.0	24.0	24.6	26.2	27.3	26.8	27.8
	6H	22.9	23.8	23.5	24.4	25.1	27.6	28.5	28.2	29.1
	8H	23.0	23.9	23.6	24.5	25.1	28.2	29.1	28.8	29.7
	12H	23.1	23.9	23.7	24.5	25.2	28.9	29.7	29.5	30.3
8H	4H	23.3	24.2	23.9	24.8	25.4	26.5	27.3	27.1	27.9
	6H	24.0	24.8	24.6	25.4	26.1	28.0	28.7	28.6	29.4
	8H	24.3	25.0	24.9	25.6	26.3	28.8	29.5	29.4	30.1
	12H	24.4	25.1	25.1	25.7	26.4	29.7	30.3	30.3	30.9
12H	4H	23.5	24.3	24.1	24.9	25.6	26.5	27.3	27.1	27.9
	6H	24.4	25.0	25.0	25.7	26.4	28.0	28.7	28.7	29.3
	8H	24.7	25.3	25.4	26.0	26.7	28.9	29.5	29.5	30.1

Maximum UGR = 31.6

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	579	580	579	580	579	579	579	579	579	580	579	580	579	580	579	580	579	579	579
5	576	577	577	578	577	578	578	578	577	578	577	577	576	577	577	578	577	578	578
10	568	569	569	572	573	574	574	574	573	572	569	569	568	569	569	572	573	574	574
15	554	555	557	561	564	567	568	567	564	561	557	555	554	555	557	561	564	567	568
20	535	536	541	547	552	557	559	557	552	547	541	536	535	536	541	547	552	557	559
25	511	513	520	530	538	545	547	545	538	530	520	513	511	513	520	530	538	545	547
30	482	486	495	508	521	530	533	530	521	508	495	486	482	486	495	508	521	530	533
35	449	454	467	485	501	513	517	513	501	485	467	454	449	454	467	485	501	513	517
40	413	419	436	458	479	494	499	494	479	458	436	419	413	419	436	458	479	494	499
45	373	381	404	430	456	473	479	473	456	430	404	381	373	381	404	430	456	473	479
50	332	342	369	401	429	449	455	449	429	401	369	342	332	342	369	401	429	449	455
55	288	301	334	370	402	424	431	424	402	370	334	301	288	301	334	370	402	424	431
60	243	260	299	339	373	395	400	395	373	339	299	260	243	260	299	339	373	395	400
65	196	218	262	306	338	355	360	355	338	306	262	218	196	218	262	306	338	355	360
70	150	177	226	268	294	310	314	310	294	268	226	177	150	177	226	268	294	310	314
75	104	137	189	223	246	262	266	262	246	223	189	137	104	137	189	223	246	262	266
80	60.0	100	145	176	199	214	218	214	199	176	145	100	60.0	100	145	176	199	214	218
85	23.8	63.3	101	131	154	168	172	168	154	131	101	63.3	23.8	63.3	101	131	154	168	172
90	4.85	30.8	64.5	94.5	117	132	137	132	117	94.5	64.5	30.8	4.85	30.8	64.5	94.5	117	132	137
95	3.97	22.2	54.0	82.8	105	120	125	120	105	82.8	54.0	22.2	3.97	22.2	54.0	82.8	105	120	125
100	3.97	14.9	44.7	72.4	93.8	108	113	108	93.8	72.4	44.7	14.9	3.97	14.9	44.7	72.4	93.8	108	113
105	3.96	8.83	35.1	61.3	82.3	95.4	100	95.4	82.3	61.3	35.1	8.83	3.96	8.83	35.1	61.3	82.3	95.4	100
110	3.96	4.51	26.2	50.2	69.7	82.1	86.4	82.1	69.7	50.2	26.2	4.51	3.96	4.51	26.2	50.2	69.7	82.1	86.4
115	3.96	4.17	18.0	39.2	57.2	68.5	72.2	68.5	57.2	39.2	18.0	4.17	3.96	4.17	18.0	39.2	57.2	68.5	72.2
120	3.96	4.03	10.5	29.1	45.1	55.4	58.5	55.4	45.1	29.1	10.5	4.03	3.96	4.03	10.5	29.1	45.1	55.4	58.5
125	4.06	3.92	4.49	19.6	33.5	42.7	45.3	42.7	33.5	19.6	4.49	3.92	4.06	3.92	4.49	19.6	33.5	42.7	45.3
130	4.07	3.85	3.71	10.6	22.7	30.9	33.0	30.9	22.7	10.6	3.71	3.85	4.07	3.85	3.71	10.6	22.7	30.9	33.0
135	4.09	3.80	3.54	3.82	12.6	19.4	21.8	19.4	12.6	3.82	3.54	3.80	4.09	3.80	3.54	3.82	12.6	19.4	21.8
140	4.10	3.75	3.35	2.98	3.94	9.00	10.9	9.00	3.94	2.98	3.35	3.75	4.10	3.75	3.35	2.98	3.94	9.00	10.9
145	4.11	3.70	3.28	2.79	2.42	1.88	2.37	1.88	2.42	2.79	3.28	3.70	4.11	3.70	3.28	2.79	2.42	1.88	2.37
150	4.13	3.66	2.98	2.51	2.18	1.72	1.59	1.72	2.18	2.51	2.98	3.66	4.13	3.66	2.98	2.51	2.18	1.72	1.59
155	4.14	3.38	2.61	2.32	1.99	1.58	1.57	1.58	1.99	2.32	2.61	3.38	4.14	3.38	2.61	2.32	1.99	1.58	1.57
160	4.06	3.00	2.42	2.05	1.74	1.54	1.55	1.54	1.74	2.05	2.42	3.00	4.06	3.00	2.42	2.05	1.74	1.54	1.55
165	3.96	3.03	2.45	2.09	1.75	1.56	1.53	1.56	1.75	2.09	2.45	3.03	3.96	3.03	2.45	2.09	1.75	1.56	1.53
170	4.09	3.10	2.48	2.03	1.76	1.57	1.51	1.57	1.76	2.03	2.48	3.10	4.09	3.10	2.48	2.03	1.76	1.57	1.51
175	4.13	3.19	2.51	1.98	1.77	1.58	1.49	1.58	1.77	1.98	2.51	3.19	4.13	3.19	2.51	1.98	1.77	1.58	1.49
180	4.15	3.19	2.52	1.95	1.77	1.58	1.59	1.58	1.77	1.95	2.52	3.19	4.15	3.19	2.52	1.95	1.77	1.58	1.59

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	579	579	580	579	580														
5	578	577	578	577	577														
10	574	573	572	569	569														
15	567	564	561	557	555														
20	557	552	547	541	536														
25	545	538	530	520	513														
30	530	521	508	495	486														
35	513	501	485	467	454														
40	494	479	458	436	419														
45	473	456	430	404	381														
50	449	429	401	369	342														
55	424	402	370	334	301														
60	395	373	339	299	260														
65	355	338	306	262	218														
70	310	294	268	226	177														
75	262	246	223	189	137														
80	214	199	176	145	100														
85	168	154	131	101	63.3														
90	132	117	94.5	64.5	30.8														
95	120	105	82.8	54.0	22.2														
100	108	93.8	72.4	44.7	14.9														
105	95.4	82.3	61.3	35.1	8.83														
110	82.1	69.7	50.2	26.2	4.51														
115	68.5	57.2	39.2	18.0	4.17														
120	55.4	45.1	29.1	10.5	4.03														
125	42.7	33.5	19.6	4.49	3.92														
130	30.9	22.7	10.6	3.71	3.85														
135	19.4	12.6	3.82	3.54	3.80														
140	9.00	3.94	2.98	3.35	3.75														
145	1.88	2.42	2.79	3.28	3.70														
150	1.72	2.18	2.51	2.98	3.66														
155	1.58	1.99	2.32	2.61	3.38														
160	1.54	1.74	2.05	2.42	3.00														
165	1.56	1.75	2.09	2.45	3.03														
170	1.57	1.76	2.03	2.48	3.10														
175	1.58	1.77	1.98	2.51	3.19														
180	1.58	1.77	1.95	2.52	3.19														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	STRP2H/MVS @15W5000K	Sample ID	250324006-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±1°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	0.124	14.8	0.993	6.61
277.0	60	0.059	15.0	0.915	13.74

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*****