

Photometric Test Report

Relevant Standards

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

Prepared For

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Issue Date: 2025-04-01

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		713
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	146.9
			115	130	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		9.7
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	6.20
				277V	11.16
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.993
				277V	0.917
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	5029±283	4872
			4 steps	5029±220	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		83.4
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		13
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%		55.9%
Discomfort Glare (UGR) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	30.3
			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		0.038
(Goniophotometer – Section 4.2)			Non-Worst Case		0.078
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		9.7
(Goniophotometer – Section 4.2)			Non-Worst Case		9.3

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-03-29	STRP2/MVS @10W5000K	-	250324005-S1
2	Goniophotometer Test	2025-03-29	STRP2/MVS @10W5000K	-	250324005-S1
3	THD and PF Test	2025-03-29	STRP2/MVS @10W5000K	-	250324005-S1

Remark (If any):

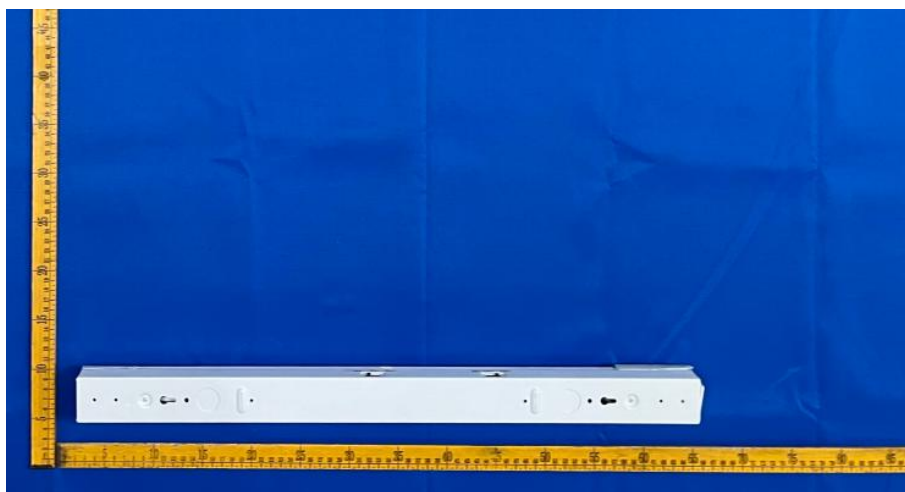
1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. STRP2/MVS @10W5000K, 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.	STRP2/MVS @10W5000K	Sample ID	250324005-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

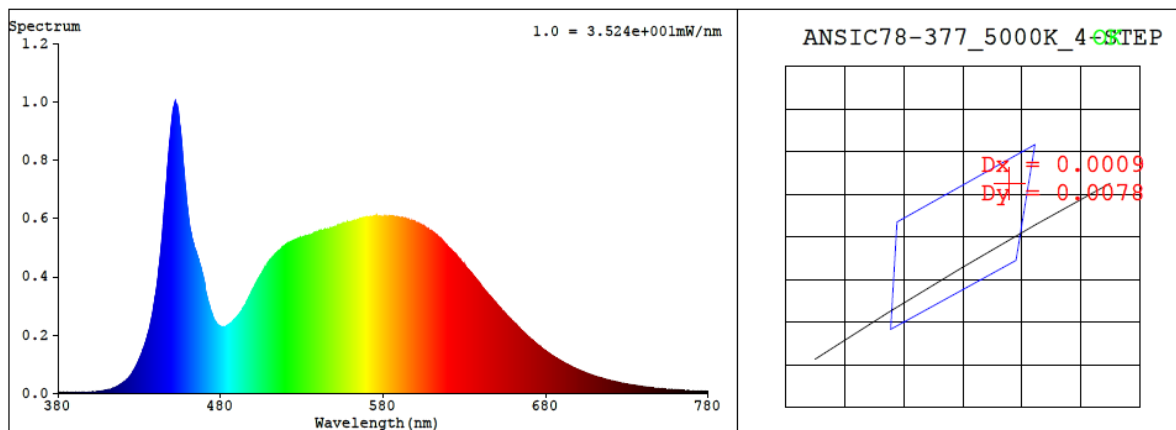
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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	0.078	9.3	0.993
277.0	60	0.038	9.7	0.917

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
4872	83.4	13	0.0035	3.3	84	96	-12%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3497$ $y = 0.3624$ / $u' = 0.2104$ $v' = 0.4905$ ($duv=3.52e-03$)

CCT= 4872K Prcp WL: $L_d=571.3nm$ Purity=13.7%

Peak WL: $L_p=452nm$ FWHM: $=20.8nm$ Ratio:R=15.9% G=79.7% B=4.3%

Render Index: $R_a = 83.4$ AvgR = 76.2 TM30:Rf=84 Rg=95

EEL: 0.09766 A++ Highest

R1 =81 R2 =88 R3 =93 R4 =82 R5 =81 R6 =83 R7 =89

R8 =69 R9 =13 R10=72 R11=81 R12=55 R13=83 R14=96 R15=76

4.1 Integrating Sphere Test

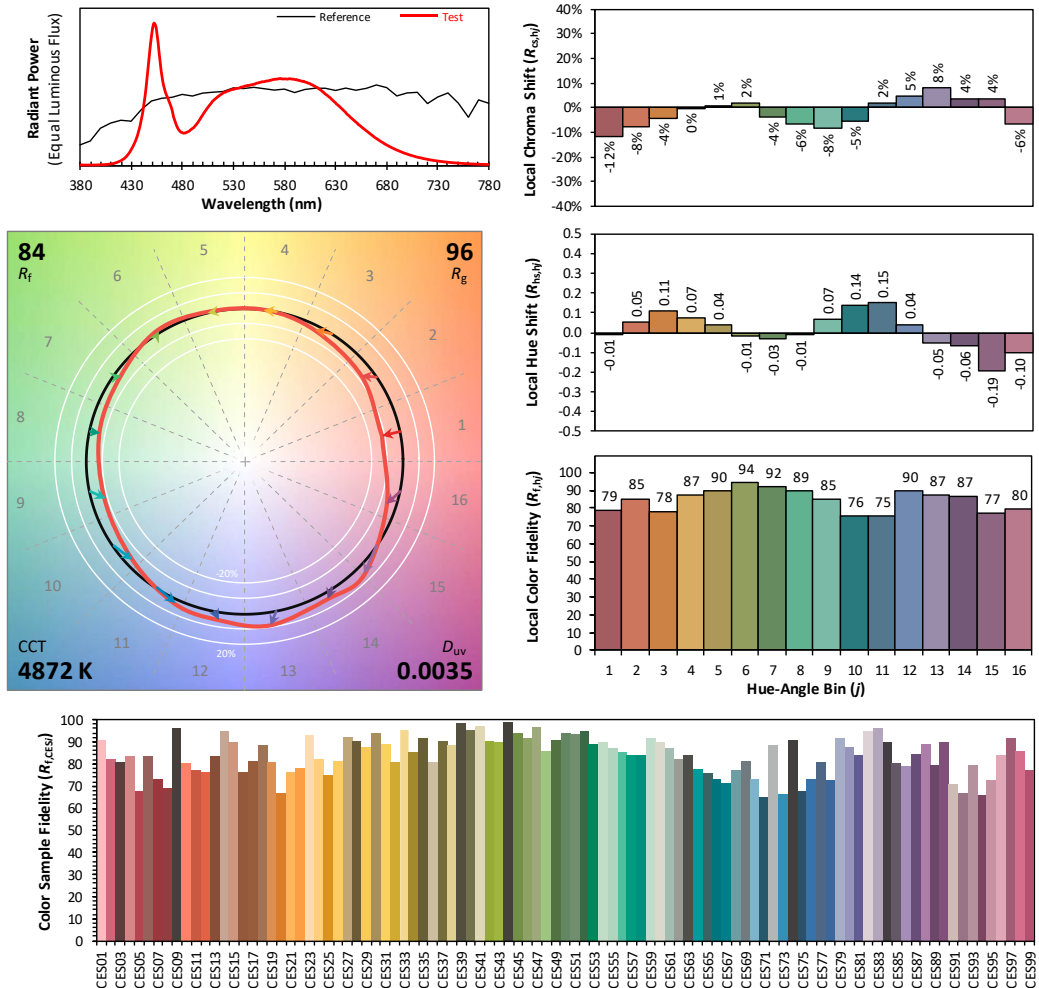
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/4/1

Model: STRP2/MVS @10W5000K



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

x 0.3496
 y 0.3622
 u' 0.2104
 v' 0.4904

CIE 13.3-1995
(CRI)

R_a 83
 R_g 13

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	3.60E-06	447	7.45E-04	514	4.78E-04	581	6.07E-04	648	3.18E-04	715	5.15E-05
381	4.50E-06	448	8.16E-04	515	4.85E-04	582	6.07E-04	649	3.12E-04	716	4.93E-05
382	3.70E-06	449	8.80E-04	516	4.90E-04	583	6.06E-04	650	3.06E-04	717	4.81E-05
383	3.20E-06	450	9.35E-04	517	4.94E-04	584	6.08E-04	651	2.99E-04	718	4.66E-05
384	3.40E-06	451	9.78E-04	518	5.01E-04	585	6.08E-04	652	2.93E-04	719	4.54E-05
385	3.40E-06	452	9.98E-04	519	5.03E-04	586	6.08E-04	653	2.85E-04	720	4.38E-05
386	3.20E-06	453	9.89E-04	520	5.09E-04	587	6.06E-04	654	2.81E-04	721	4.25E-05
387	2.50E-06	454	9.69E-04	521	5.13E-04	588	6.06E-04	655	2.75E-04	722	4.10E-05
388	3.50E-06	455	9.17E-04	522	5.14E-04	589	6.05E-04	656	2.69E-04	723	3.98E-05
389	3.00E-06	456	8.62E-04	523	5.19E-04	590	6.03E-04	657	2.63E-04	724	3.83E-05
390	3.30E-06	457	7.88E-04	524	5.21E-04	591	6.02E-04	658	2.57E-04	725	3.74E-05
391	3.00E-06	458	7.27E-04	525	5.24E-04	592	6.03E-04	659	2.51E-04	726	3.62E-05
392	3.30E-06	459	6.64E-04	526	5.26E-04	593	5.98E-04	660	2.46E-04	727	3.49E-05
393	3.70E-06	460	6.18E-04	527	5.29E-04	594	5.99E-04	661	2.40E-04	728	3.40E-05
394	3.50E-06	461	5.74E-04	528	5.32E-04	595	5.95E-04	662	2.35E-04	729	3.28E-05
395	4.00E-06	462	5.45E-04	529	5.34E-04	596	5.94E-04	663	2.29E-04	730	3.20E-05
396	3.90E-06	463	5.19E-04	530	5.34E-04	597	5.92E-04	664	2.23E-04	731	3.10E-05
397	4.40E-06	464	4.98E-04	531	5.37E-04	598	5.89E-04	665	2.18E-04	732	2.99E-05
398	4.30E-06	465	4.82E-04	532	5.40E-04	599	5.91E-04	666	2.12E-04	733	2.87E-05
399	4.90E-06	466	4.64E-04	533	5.40E-04	600	5.86E-04	667	2.07E-04	734	2.82E-05
400	4.90E-06	467	4.45E-04	534	5.41E-04	601	5.84E-04	668	2.01E-04	735	2.74E-05
401	5.20E-06	468	4.27E-04	535	5.42E-04	602	5.82E-04	669	1.95E-04	736	2.64E-05
402	5.70E-06	469	4.06E-04	536	5.44E-04	603	5.78E-04	670	1.91E-04	737	2.55E-05
403	5.90E-06	470	3.81E-04	537	5.48E-04	604	5.77E-04	671	1.86E-04	738	2.48E-05
404	6.50E-06	471	3.46E-04	538	5.50E-04	605	5.74E-04	672	1.82E-04	739	2.40E-05
405	7.20E-06	472	3.23E-04	539	5.51E-04	606	5.69E-04	673	1.77E-04	740	2.34E-05
406	7.40E-06	473	3.02E-04	540	5.53E-04	607	5.66E-04	674	1.72E-04	741	2.26E-05
407	8.50E-06	474	2.83E-04	541	5.57E-04	608	5.64E-04	675	1.67E-04	742	2.18E-05
408	9.40E-06	475	2.66E-04	542	5.58E-04	609	5.58E-04	676	1.63E-04	743	2.12E-05
409	1.00E-05	476	2.53E-04	543	5.58E-04	610	5.56E-04	677	1.59E-04	744	2.04E-05
410	1.12E-05	477	2.44E-04	544	5.62E-04	611	5.50E-04	678	1.54E-04	745	1.98E-05
411	1.23E-05	478	2.36E-04	545	5.61E-04	612	5.48E-04	679	1.49E-04	746	1.93E-05
412	1.36E-05	479	2.33E-04	546	5.63E-04	613	5.43E-04	680	1.46E-04	747	1.84E-05
413	1.54E-05	480	2.29E-04	547	5.65E-04	614	5.37E-04	681	1.41E-04	748	1.79E-05
414	1.84E-05	481	2.27E-04	548	5.66E-04	615	5.32E-04	682	1.38E-04	749	1.75E-05
415	1.99E-05	482	2.28E-04	549	5.69E-04	616	5.27E-04	683	1.34E-04	750	1.70E-05
416	2.27E-05	483	2.28E-04	550	5.70E-04	617	5.21E-04	684	1.30E-04	751	1.64E-05
417	2.59E-05	484	2.33E-04	551	5.71E-04	618	5.15E-04	685	1.27E-04	752	1.59E-05
418	2.93E-05	485	2.35E-04	552	5.75E-04	619	5.09E-04	686	1.23E-04	753	1.54E-05
419	3.22E-05	486	2.40E-04	553	5.78E-04	620	5.02E-04	687	1.20E-04	754	1.49E-05
420	3.60E-05	487	2.44E-04	554	5.79E-04	621	4.97E-04	688	1.16E-04	755	1.46E-05
421	4.09E-05	488	2.51E-04	555	5.81E-04	622	4.92E-04	689	1.13E-04	756	1.40E-05
422	4.55E-05	489	2.56E-04	556	5.83E-04	623	4.86E-04	690	1.09E-04	757	1.35E-05
423	5.04E-05	490	2.61E-04	557	5.84E-04	624	4.80E-04	691	1.07E-04	758	1.32E-05
424	5.71E-05	491	2.66E-04	558	5.88E-04	625	4.75E-04	692	1.04E-04	759	1.29E-05
425	6.41E-05	492	2.75E-04	559	5.87E-04	626	4.66E-04	693	1.01E-04	760	1.23E-05
426	7.34E-05	493	2.83E-04	560	5.88E-04	627	4.61E-04	694	9.73E-05	761	1.19E-05
427	8.18E-05	494	2.93E-04	561	5.90E-04	628	4.53E-04	695	9.46E-05	762	1.17E-05
428	9.25E-05	495	3.01E-04	562	5.92E-04	629	4.46E-04	696	9.18E-05	763	1.11E-05
429	1.04E-04	496	3.13E-04	563	5.93E-04	630	4.41E-04	697	8.85E-05	764	1.08E-05
430	1.17E-04	497	3.23E-04	564	5.93E-04	631	4.32E-04	698	8.63E-05	765	1.05E-05
431	1.29E-04	498	3.36E-04	565	5.96E-04	632	4.27E-04	699	8.35E-05	766	1.04E-05
432	1.45E-04	499	3.46E-04	566	5.98E-04	633	4.21E-04	700	8.18E-05	767	9.90E-06
433	1.59E-04	500	3.57E-04	567	5.98E-04	634	4.15E-04	701	7.87E-05	768	9.90E-06
434	1.77E-04	501	3.69E-04	568	6.02E-04	635	4.07E-04	702	7.64E-05	769	9.20E-06
435	1.96E-04	502	3.79E-04	569	6.02E-04	636	4.01E-04	703	7.39E-05	770	9.10E-06
436	2.18E-04	503	3.89E-04	570	6.05E-04	637	3.94E-04	704	7.19E-05	771	8.80E-06
437	2.44E-04	504	4.00E-04	571	6.04E-04	638	3.86E-04	705	6.98E-05	772	8.50E-06
438	2.70E-04	505	4.09E-04	572	6.06E-04	639	3.80E-04	706	6.77E-05	773	8.30E-06
439	3.05E-04	506	4.18E-04	573	6.06E-04	640	3.73E-04	707	6.57E-05	774	8.00E-06
440	3.39E-04	507	4.27E-04	574	6.08E-04	641	3.63E-04	708	6.38E-05	775	7.80E-06
441	3.77E-04	508	4.35E-04	575	6.09E-04	642	3.57E-04	709	6.13E-05	776	7.60E-06
442	4.28E-04	509	4.47E-04	576	6.11E-04	643	3.51E-04	710	5.96E-05	777	7.20E-06
443	4.76E-04	510	4.54E-04	577	6.07E-04	644	3.45E-04	711	5.80E-05	778	7.10E-06
444	5.36E-04	511	4.60E-04	578	6.08E-04	645	3.37E-04	712	5.60E-05	779	7.10E-06
445	6.05E-04	512	4.67E-04	579	6.07E-04	646	3.31E-04	713	5.48E-05	780	7.10E-06
446	6.74E-04	513	4.72E-04	580	6.07E-04	647	3.25E-04	714	5.33E-05	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	STRP2/MVS @10W5000K	Sample ID	250324005-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	24.7	Humidity (%RH)	41.3

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	0.038	9.7	0.917
NON-WORST CASE	120.0	60	0.078	9.3	0.993

Test Result

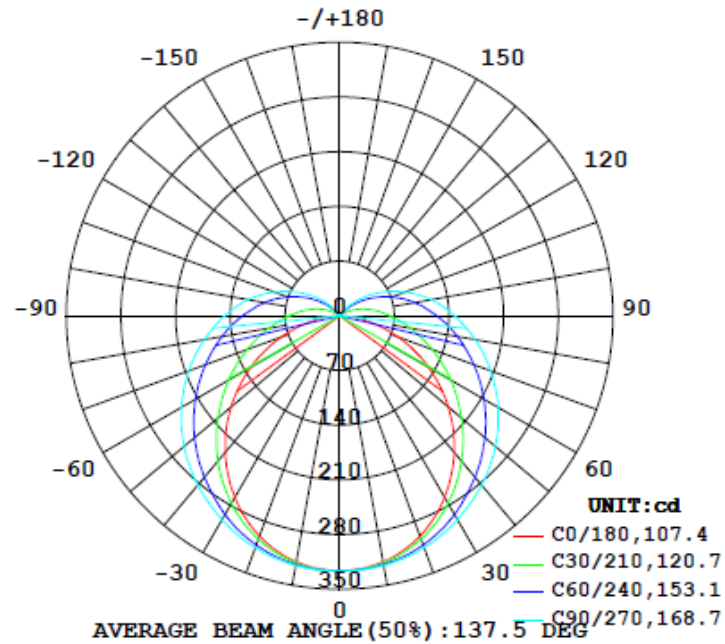
Flux (lm)	Flux per feet (lm/ft)	Field Angle (10%)		Beam Angle (50%)		Luminous Efficacy (lm/W)
		C0-180	C90-270	C0-180	C90-270	
1425	713	161.2	161.2	107.6	168.8	146.9

Zonal Lumen Requirement	UGR	
(0° - 60°)	Crosswise	Endwise
55.9%	22.2	30.3

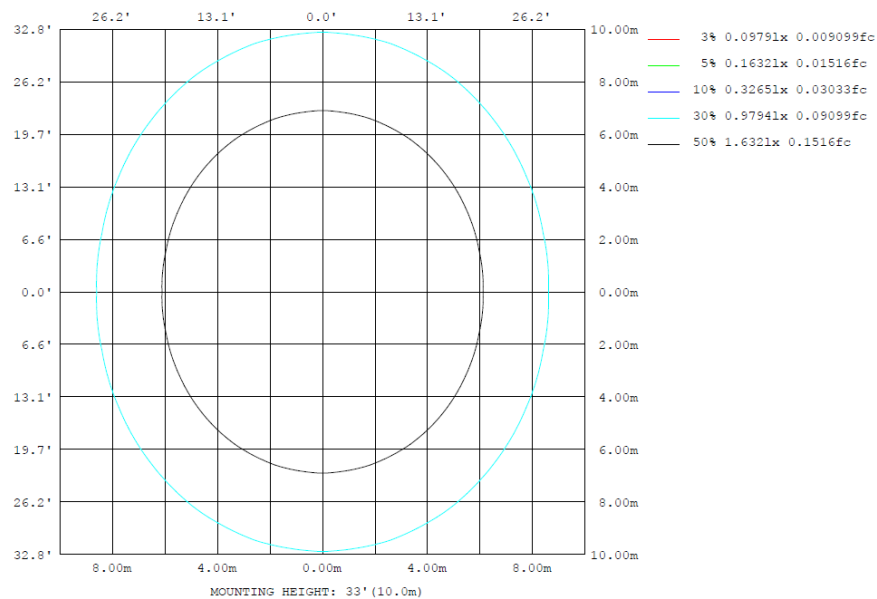
4.2 Goniophotometer Test

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	319.6	322.0	324.7	322.0	319.6	322.0	324.7	322.0	0- 10	30.95	30.95	2.17,2.17
20	300.2	308.1	315.9	308.1	300.2	308.1	315.9	308.1	10- 20	89.34	120.3	8.44,8.44
30	268.5	285.8	301.3	285.8	268.5	285.8	301.3	285.8	20- 30	137.3	257.6	18.1,18.1
40	228.2	256.1	282.9	256.1	228.2	256.1	282.9	256.1	30- 40	169.8	427.4	30,30
50	181.6	224.2	260.1	224.2	181.6	224.2	260.1	224.2	40- 50	185.1	612.5	43,43
60	131.2	190.6	234.1	190.6	131.2	190.6	234.1	190.6	50- 60	183.4	796.0	55.9,55.9
70	79.48	156.9	205.6	156.9	79.48	156.9	205.6	156.9	60- 70	167.2	963.1	67.6,67.6
80	31.44	125.7	176.2	125.7	31.44	125.7	176.2	125.7	70- 80	141.0	1104	77.5,77.5
90	3.196	97.75	147.2	97.75	3.196	97.75	147.2	97.75	80- 90	111.3	1215	85.3,85.3
100	2.136	73.70	119.4	73.70	2.136	73.70	119.4	73.70	90-100	84.57	1300	91.2,91.2
110	2.136	49.81	88.85	49.81	2.136	49.81	88.85	49.81	100-110	59.83	1360	95.4,95.4
120	2.136	28.37	59.54	28.37	2.136	28.37	59.54	28.37	110-120	36.99	1397	98,98
130	2.136	9.705	33.11	9.705	2.136	9.705	33.11	9.705	120-130	18.85	1416	99.4,99.4
140	2.136	1.842	10.84	1.842	2.136	1.842	10.84	1.842	130-140	6.784	1422	99.8,99.8
150	2.136	1.367	1.138	1.367	2.136	1.367	1.138	1.367	140-150	1.327	1424	99.9,99.9
160	2.046	1.080	1.010	1.080	2.046	1.080	1.010	1.080	150-160	0.5745	1424	100,100
170	2.135	1.035	1.012	1.035	2.135	1.035	1.012	1.035	160-170	0.3367	1425	100,100
180	2.415	1.003	1.102	1.003	2.415	1.003	1.102	1.003	170-180	0.1191	1425	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

	Zonal (lm)		Total (lm)	Percent
0-10	30.95	0-10	30.95	2.17%
10-20	89.34	0-20	120.29	8.44%
20-30	137.34	0-30	257.63	18.08%
30-40	169.80	0-40	427.43	30.00%
40-50	185.11	0-50	612.54	43.00%
50-60	183.43	0-60	795.97	55.87%
60-70	167.18	0-70	963.15	67.61%
70-80	140.96	0-80	1104.11	77.50%
80-90	111.28	0-90	1215.39	85.31%
90-100	84.57	0-100	1299.96	91.25%
100-110	59.83	0-110	1359.79	95.45%
110-120	36.99	0-120	1396.78	98.04%
120-130	18.85	0-130	1415.63	99.37%
130-140	6.78	0-140	1422.41	99.84%
140-150	1.33	0-150	1423.74	99.94%
150-160	0.57	0-160	1424.31	99.98%
160-170	0.34	0-170	1424.65	100.00%
170-180	0.12	0-180	1424.77	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											
X=2H		UGR Viewed Crosswise					UGR Viewed Endwise				
Y=2H		16.9	18.3	17.5	18.9	19.6	21.0	22.5	21.6	23.1	23.7
3H		18.3	19.6	18.8	20.2	20.9	24.0	25.4	24.6	26.0	26.6
4H		18.7	19.9	19.3	20.6	21.3	25.6	26.8	26.2	27.4	28.1
6H		19.0	20.1	19.6	20.7	21.5	27.2	28.4	27.8	29.0	29.7
8H		19.0	20.1	19.6	20.8	21.5	28.0	29.2	28.7	29.8	30.5
12H		19.0	20.1	19.7	20.7	21.5	29.0	30.1	29.6	30.7	31.5
4H		2H	18.2	19.5	18.8	20.1	20.8	21.4	22.6	22.0	23.2
		3H	19.9	21.0	20.5	21.6	22.4	24.6	25.7	25.2	26.3
		4H	20.5	21.5	21.1	22.1	22.9	26.3	27.3	26.9	27.9
		6H	20.9	21.8	21.5	22.4	23.2	28.1	29.0	28.7	29.6
		8H	21.0	21.8	21.6	22.5	23.3	29.1	29.9	29.7	30.6
		12H	21.0	21.8	21.7	22.5	23.3	30.1	30.9	30.8	31.6
8H		4H	21.7	22.5	22.3	23.2	24.0	26.4	27.3	27.1	27.9
		6H	22.3	23.0	23.0	23.8	24.5	28.4	29.1	29.1	29.8
		8H	22.5	23.2	23.2	23.9	24.7	29.5	30.2	30.2	30.9
		12H	22.7	23.3	23.4	24.0	24.8	30.8	31.3	31.5	32.0
12H		4H	22.0	22.8	22.7	23.5	24.3	26.4	27.2	27.1	27.9
		6H	22.9	23.5	23.6	24.2	25.1	28.4	29.1	29.2	29.8
		8H	23.2	23.8	23.9	24.5	25.4	29.6	30.2	30.3	30.9

Maximum UGR = 32.9

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											
X=2H		UGR Viewed Crosswise					UGR Viewed Endwise				
Y=2H		18.1	19.5	18.7	20.1	20.8	22.2	23.7	22.8	24.3	24.9
3H		19.5	20.8	20.0	21.4	22.1	25.2	26.6	25.8	27.2	27.8
4H		19.9	21.1	20.5	21.8	22.5	26.8	28.0	27.4	28.6	29.3
6H		20.2	21.3	20.8	21.9	22.7	28.4	29.6	29.0	30.2	30.9
8H		20.2	21.3	20.8	22.0	22.7	29.2	30.4	29.9	31.0	31.7
12H		20.2	21.3	20.9	21.9	22.7	30.2	31.3	30.8	31.9	32.7
4H		2H	19.4	20.7	20.0	21.3	22.0	22.6	23.8	23.2	24.4
		3H	21.1	22.2	21.7	22.8	23.6	25.8	26.9	26.4	27.5
		4H	21.7	22.7	22.3	23.3	24.1	27.5	28.5	28.1	29.1
		6H	22.1	23.0	22.7	23.6	24.4	29.3	30.2	29.9	30.8
		8H	22.2	23.0	22.8	23.7	24.5	30.3	31.1	30.9	31.8
		12H	22.2	23.0	22.9	23.7	24.5	31.3	32.1	32.0	32.8
8H		4H	22.9	23.7	23.5	24.4	25.2	27.6	28.5	28.3	29.1
		6H	23.5	24.2	24.2	25.0	25.7	29.6	30.3	30.3	31.0
		8H	23.7	24.4	24.4	25.1	25.9	30.7	31.4	31.4	32.1
		12H	23.9	24.5	24.6	25.2	26.0	32.0	32.5	32.7	33.2
12H		4H	23.2	24.0	23.9	24.7	25.5	27.6	28.4	28.3	29.1
		6H	24.1	24.7	24.8	25.4	26.3	29.6	30.3	30.4	31.0
		8H	24.4	25.0	25.1	25.7	26.6	30.8	31.4	31.5	32.1

Maximum UGR = 34.1

4.2 Goniophotometer Test

Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) y	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326
5	325	325	325	325	326	326	326	326	326	325	325	325	325	325	325	325	326	326	326
10	320	320	321	322	323	324	325	324	323	322	321	320	320	320	321	322	323	324	325
15	312	313	314	316	319	320	321	320	319	316	314	313	312	313	314	316	319	320	321
20	300	301	304	308	312	315	316	315	312	308	304	301	300	301	304	308	312	315	316
25	286	287	292	298	304	308	309	308	304	298	292	287	286	287	292	298	304	308	309
30	268	271	278	286	294	299	301	299	294	286	278	271	268	271	278	286	294	299	301
35	249	252	261	272	282	290	292	290	282	272	261	252	249	252	261	272	282	290	292
40	228	232	243	256	270	279	283	279	270	256	243	232	228	232	243	256	270	279	283
45	206	211	223	240	256	268	272	268	256	240	223	211	206	211	223	240	256	268	272
50	182	189	204	224	243	255	260	255	243	224	204	189	182	189	204	224	243	255	260
55	157	165	184	207	228	242	247	242	228	207	184	165	157	165	184	207	228	242	247
60	131	142	164	191	213	228	234	228	213	191	164	142	131	142	164	191	213	228	234
65	106	118	145	174	198	215	220	215	198	174	145	118	106	118	145	174	198	215	220
70	79.5	95.1	126	157	183	200	206	200	183	157	126	95.1	79.5	95.1	126	157	183	200	206
75	54.3	74.0	108	141	168	186	191	186	168	141	108	74.0	54.3	74.0	108	141	168	186	191
80	31.4	55.1	92.0	126	153	171	176	171	153	126	92.0	55.1	31.4	55.1	92.0	126	153	171	176
85	13.0	39.4	77.7	112	139	156	162	156	139	112	77.7	39.4	13.0	39.4	77.7	112	139	156	162
90	3.20	27.9	64.4	97.8	124	141	147	141	124	97.8	64.4	27.9	3.20	27.9	64.4	97.8	124	141	147
95	2.32	19.7	53.8	85.6	111	127	133	127	111	85.6	53.8	19.7	2.32	19.7	53.8	85.6	111	127	133
100	2.14	12.8	43.4	73.7	98.0	113	119	113	98.0	73.7	43.4	12.8	2.14	12.8	43.4	73.7	98.0	113	119
105	2.14	7.04	33.7	61.6	84.1	98.6	104	98.6	84.1	61.6	33.7	7.04	2.14	7.04	33.7	61.6	84.1	98.6	104
110	2.14	2.86	24.7	49.8	70.7	83.9	88.8	83.9	70.7	49.8	24.7	2.86	2.14	2.86	24.7	49.8	70.7	83.9	88.8
115	2.14	2.40	16.3	38.7	57.5	69.3	73.9	69.3	57.5	38.7	16.3	2.40	2.14	2.40	16.3	38.7	57.5	69.3	73.9
120	2.14	2.29	8.88	28.4	44.8	55.7	59.5	55.7	44.8	28.4	8.88	2.29	2.14	2.29	8.88	28.4	44.8	55.7	59.5
125	2.14	2.24	2.95	18.5	33.1	42.8	46.0	42.8	33.1	18.5	2.95	2.24	2.14	2.24	2.95	18.5	33.1	42.8	46.0
130	2.14	2.20	2.25	9.70	22.2	30.8	33.1	30.8	22.2	9.70	2.25	2.20	2.14	2.20	2.25	9.70	22.2	30.8	33.1
135	2.14	2.17	2.05	2.56	12.0	19.2	21.6	19.2	12.0	2.56	2.05	2.17	2.14	2.17	2.05	2.56	12.0	19.2	21.6
140	2.14	2.14	1.92	1.84	3.11	8.72	10.8	8.72	3.11	1.84	1.92	2.14	2.14	1.92	1.84	3.11	8.72	10.8	
145	2.14	1.97	1.83	1.50	1.43	1.38	1.74	1.38	1.43	1.50	1.83	1.97	2.14	1.97	1.83	1.50	1.43	1.38	1.74
150	2.14	1.57	1.28	1.37	1.28	1.28	1.14	1.28	1.28	1.37	1.28	1.57	2.14	1.57	1.28	1.37	1.28	1.28	1.14
155	2.05	1.30	1.08	1.18	1.14	1.10	1.05	1.10	1.14	1.18	1.08	1.30	2.05	1.30	1.08	1.18	1.14	1.10	1.05
160	2.05	1.21	1.08	1.08	1.10	1.04	1.01	1.04	1.10	1.08	1.08	1.21	2.05	1.21	1.08	1.08	1.10	1.04	1.01
165	2.05	1.29	1.13	1.06	1.10	1.03	1.01	1.03	1.10	1.06	1.13	1.29	2.05	1.29	1.13	1.06	1.10	1.03	1.01
170	2.13	1.37	1.17	1.03	1.10	1.02	1.01	1.02	1.10	1.03	1.17	1.37	2.13	1.37	1.17	1.03	1.10	1.02	1.01
175	2.42	1.47	1.18	1.01	1.10	1.01	1.10	1.01	1.10	1.01	1.18	1.47	2.42	1.47	1.18	1.01	1.10	1.01	1.10
180	2.42	1.57	1.19	1.00	1.10	1.00	1.10	1.00	1.10	1.00	1.19	1.57	2.42	1.57	1.19	1.00	1.10	1.00	1.10

Table--2

UNIT: cd

C (DEG) y	285	300	315	330	345														
0	326	326	326	326	326														
5	326	326	325	325	325														
10	324	323	322	321	320														
15	320	319	316	314	313														
20	315	312	308	304	301														
25	308	304	298	292	287														
30	299	294	286	278	271														
35	290	282	272	261	252														
40	279	270	256	243	232														
45	268	256	240	223	211														
50	255	243	224	204	189														
55	242	228	207	184	165														
60	228	213	191	164	142														
65	215	198	174	145	118														
70	200	183	157	126	95.1														
75	186	168	141	108	74.0														
80	171	153	126	92.0	55.1														
85	156	139	112	77.7	39.4														
90	141	124	97.8	64.4	27.9														
95	127	111	85.6	53.8	19.7														
100	113	98.0	73.7	43.4	12.8														
105	98.6	84.1	61.6	33.7	7.04														
110	83.9	70.7	49.8	24.7	2.86														
115	69.3	57.5	38.7	16.3	2.40														
120	55.7	44.8	28.4	8.88	2.29														
125	42.8	33.1	18.5	2.95	2.24														
130	30.8	22.2	9.70	2.25	2.20														
135	19.2	12.0	2.56	2.05	2.17														
140	8.72	3.11	1.84	1.92	2.14														
145	1.38	1.43	1.50	1.83	1.97														
150	1.28	1.28	1.37	1.28	1.57														
155	1.10	1.14	1.18	1.08	1.30														
160	1.04	1.10	1.08	1.08	1.21														
165	1.03	1.10	1.06	1.13	1.29														
170	1.02	1.10	1.03	1.17	1.37														
175	1.01	1.10	1.01	1.18	1.47														
180	1.00	1.10	1.00	1.19	1.57														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	STRP2/MVS @10W5000K	Sample ID	250324005-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	0.078	9.3	0.993	6.20
277.0	60	0.038	9.7	0.917	11.16

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*****