

LM-79-19 Test Report

For

Reno LED Lighting Inc

7-615 Denison St, Markham L3R 1B8 Canada

Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Model Name(s):

RENO-SB-150W-MW-DV-MCCT-G2-R2

Representative (Tested) Model:

RENO-SB-150W-MW-DV-MCCT-G2-R2

Model Difference:

1. Product is wattage tunable, can be tunable from 100W, 120W, 135W and 150W;
2. Product is color tunable, can be tunable from 3000K, 4000K and 5000K;
3. All is the same construction, except function, mount mean and model design.

Prepared by:

Alan Wang

Engineer: Alan Wang

Date: 2024-01-24

Reviewed by:

Vincent Yuan

Technical Lead: Vincent Yuan

Issue Date: 2024-01-24

Revised Date: N/A

Note:

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.

Laboratory: Dongguan New Testing Centre Co., Ltd

Address: 3F, No. 1 the 1st North Industry Road, Songshan Lake Science & Technology Park, Dongguan, Guangdong, China

Tel: 86-769-22212079

Website: <http://www.ntc-cert.com>

Client Information:

Applicant Name:	Reno LED Lighting Inc
Brand Name:	RENO
Manufacturer Name:	Reno LED Lighting Inc
Manufacturer Address:	7-615 Denison St, Markham L3R 1B8 Canada

Product Information:

Model Number:	RENO-SB-150W-MW-DV-MCCT-G2-R2				
Product Type:	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires				
Rating Input:	120-347Vac, 50/60Hz, 100W/120W/135W/150W				
Declared CCT:	3000K, 4000K and 5000K				
Declared Light Output:		100W	120W	135W	150W
	3000K	15300 lm	18360 lm	20655 lm	22950 lm
	4000K	17000 lm	20400 lm	22950 lm	25500 lm
	5000K	16000 lm	19200 lm	21600 lm	24000 lm
Declared Efficacy:	3000K: 153 lm/W 4000K: 170 lm/W 5000K: 160 lm/W				
LED Manufacturer:	LUMILEDS				
LED Model:	L130-3070003000X21 and L130-5070003000X21				
LED Driver Manufacturer:	KERHAM				
LED Driver Model:	KHM-NISG150H43M-1200				

Test Information:

Standard Lamp:	Total Spectral Radiant Flux Standard Lamp, trace to NIST. 1. D908S for Gonio 2. D215S for Integrating Sphere
Date of Receipt Samples:	2023-12-07
Quantity of Receipt Samples:	1 pc
Sample Number:	231207022-S1
Test Representation:	N/A

Laboratory Information:

Test Laboratory:	Dongguan New Testing Centre Co., Ltd
Laboratory Address:	3F, No. 1 the 1 st North Industry Road, Songshan Lake Science & Technology Park, Dongguan, Guangdong, China
Laboratory Contact Name:	Neil Zhong
Laboratory Contact E-mail:	Neil_zhong@ntc-cert.com

Report Information:

Test Report Form:	LM-79_TRF_V1.5
Issued Date of Test Report:	2024-01-24
Revised Date of Test Report:	N/A
Test Report No.:	NTCLR24010181
Remark (If applicable):	1. This report is copied from NTCLR24010039, due to the same product.

Test Specification:	
Date of Test	2023-12-25
Test Item	1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Fidelity Index 8. Gamut Index 9. Local Chroma Shift 10. THD and PF
Reference Standard	ANSI/IES LM-79:2019 Optical and Electrical Measurements of Solid-State Lighting Products – Chromaticity Uniformity Measurements ANSI C78.377-2017 Specifications for the Chromaticity of Solid State Lighting Products CIE 13.3-1995 Method of Measuring and Specifying Color Rendering Properties of Light Sources CIE 15-2018 Technical Report Colorimetry ANSI IES TM-30-18 IES Method for Evaluating Light Source Color Rendition IES TM-15-11 Luminaire Classification System for Outdoor Luminaires Addendum A for IES TM-15-11 Backlight, Uplight, and Glare (BUG) Ratings ANSI C82.77-10:2020 Harmonic Emission Limits – Related Power Quality Requirements for Lighting Equipment – Solid State

Test Methods:
1. Photometric and Electrical Measurements – Light Distribution Method: Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at required Voltage and Frequency. It was stabilized before measurement was made. Luminous Flux, Luminaire Efficacy and Zonal Lumen were calculated from the software taken at 1° vertical intervals and 15° horizontal intervals.
2. Photometric and Electrical Measurements – Integrating Sphere Method: Photometric parameters were measured using an integrating sphere, as spectroradiometer and software. The ambient temperature condition inside the sphere was measured at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at require Voltage and Frequency. It was stabilized before measurement was made. Chromaticity Coordinates, Correlated Color Temperature and Color Rendering Index were calculated from the spectral radiant flux measurements taken at least 1 nm intervals over the rage of 380 to 780 nm.
3. THD and PF Measurements: The sample was tested according to the ANSI C82.77, the sample was operated at requirement Voltage and Frequency, and was stabilized before measurement. The Total Harmonic Distortion was calculated from the Digital Power Meter.

Integrating Sphere Test Results:

Test Condition:

Test Ambient (°C)	Test Humidity (%)	Orientation	Stabilization Time (minute)	Test Time (minute)
25.4	41.0	Face Down	90	10

Electrical Data:

CCT Setting	Voltage (V)	Frequency (Hz)	Current (A)	Wattage (W)	Power Factor
3000K	120.0	60	1.2801	152.87	0.9952
4000K	120.0	60	1.2340	147.27	0.9945
5000K	120.0	60	1.2803	152.90	0.9952

Color Data:

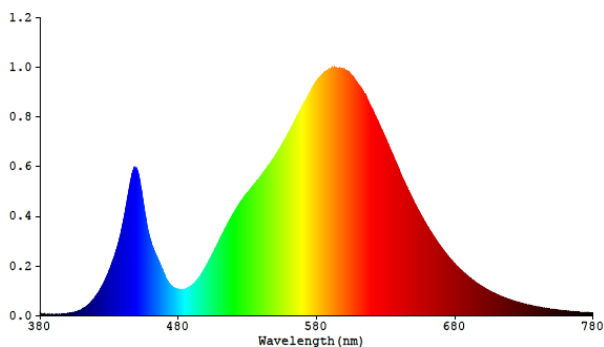
CCT Setting	Test CCT (K)	R _a	R ₉	R _f	R _g	R _{cs, h1}	Chromaticity		
							(x, y)	(u', v')	Duv
3000K	3059	72.2	-30	74	95	-16%	(0.4312, 0.3992)	(0.2490, 0.5186)	-0.0011
4000K	3841	73.6	-27	75	94	-17%	(0.3875, 0.3804)	(0.2283, 0.5042)	-0.0003
5000K	5048	72.8	-27	74	96	-16%	(0.3441, 0.3550)	(0.2095, 0.4862)	0.0021

Specify Color Rendering:

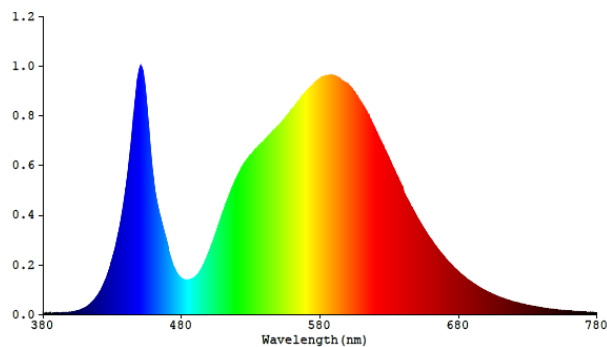
CCT Setting	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
3000K	69	82	93	68	68	75	78	45	-30	58	63	51	71	96	62
4000K	71	81	89	72	70	73	81	52	-27	54	67	46	73	93	64
5000K	71	77	82	74	72	69	80	58	-27	45	72	49	71	89	65

Spectrum Diagram:

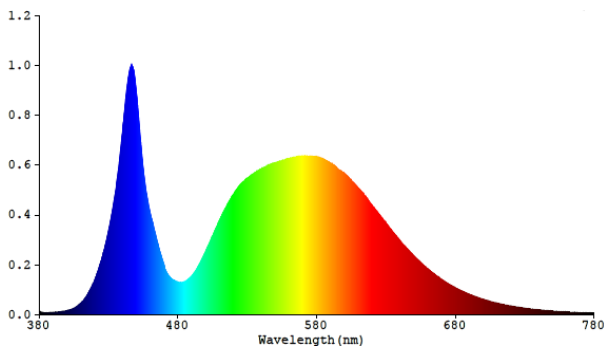
CCT Setting=3000K



CCT Setting=4000K



CCT Setting=5000K



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IES TM-30-18 Color Rendition Result (CCT Setting=3000K):

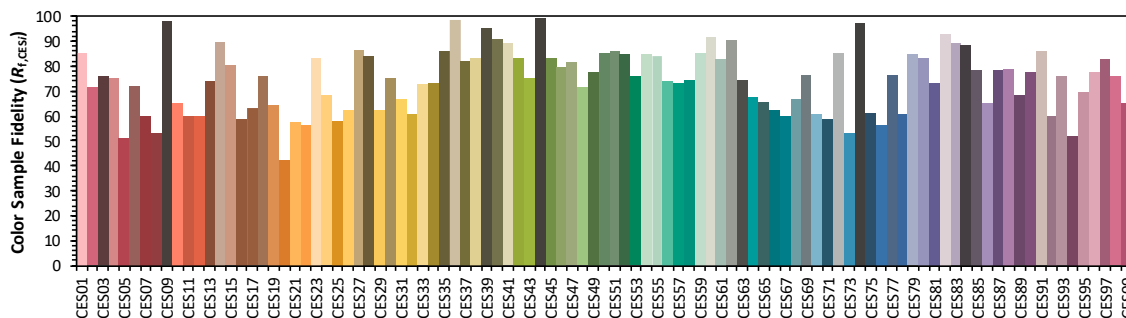
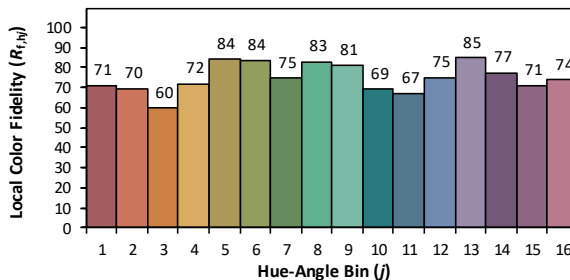
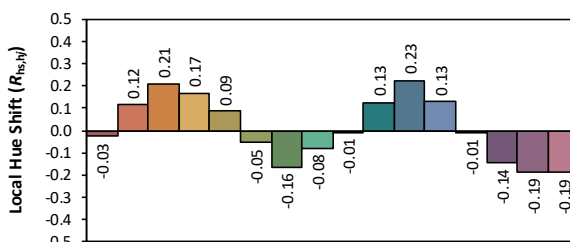
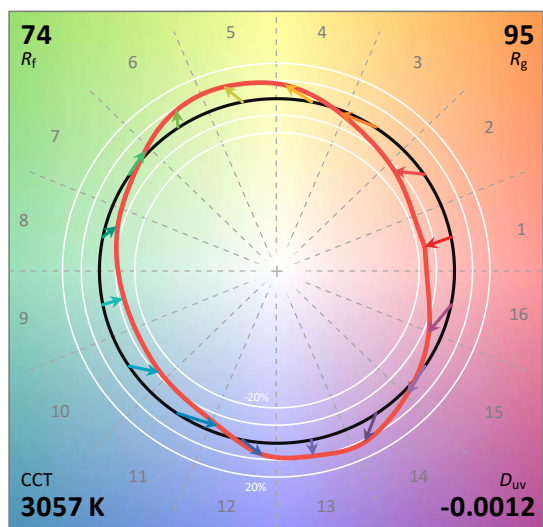
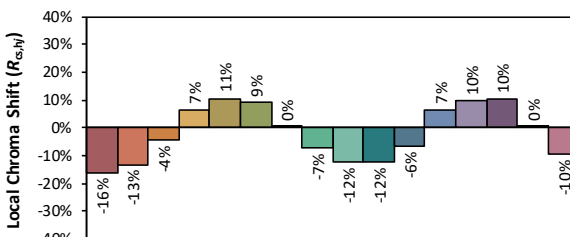
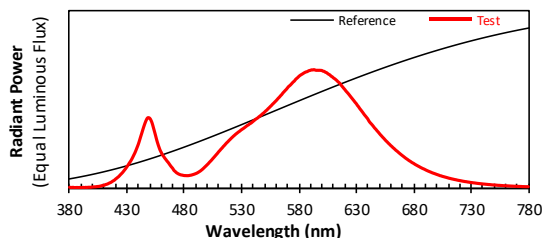
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: Reno LED Lighting Inc

Date: 2024/1/24

Model: RENO-SB-150W-MW-DV-MCCT-G2-R2



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

x 0.4312
 y 0.3991
 u' 0.2490
 v' 0.5185

CIE 13.3-1995
(CRI)

R_a 72
 R_g -30

Spectrum Data (CCT Setting=3000K):

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	6.90E-06	447	5.76E-04	514	3.50E-04	581	9.50E-04	648	4.84E-04	715	7.39E-05
381	5.70E-06	448	5.92E-04	515	3.60E-04	582	9.57E-04	649	4.74E-04	716	7.17E-05
382	5.20E-06	449	5.93E-04	516	3.71E-04	583	9.62E-04	650	4.62E-04	717	6.99E-05
383	6.40E-06	450	5.88E-04	517	3.82E-04	584	9.69E-04	651	4.50E-04	718	6.74E-05
384	4.40E-06	451	5.71E-04	518	3.91E-04	585	9.74E-04	652	4.40E-04	719	6.54E-05
385	4.30E-06	452	5.47E-04	519	4.01E-04	586	9.79E-04	653	4.29E-04	720	6.37E-05
386	4.90E-06	453	5.13E-04	520	4.10E-04	587	9.82E-04	654	4.19E-04	721	6.20E-05
387	4.90E-06	454	4.78E-04	521	4.20E-04	588	9.86E-04	655	4.08E-04	722	5.99E-05
388	4.30E-06	455	4.42E-04	522	4.30E-04	589	9.91E-04	656	3.98E-04	723	5.80E-05
389	5.10E-06	456	4.05E-04	523	4.39E-04	590	9.93E-04	657	3.89E-04	724	5.64E-05
390	3.70E-06	457	3.73E-04	524	4.47E-04	591	9.97E-04	658	3.78E-04	725	5.46E-05
391	4.90E-06	458	3.44E-04	525	4.56E-04	592	9.96E-04	659	3.69E-04	726	5.37E-05
392	5.90E-06	459	3.18E-04	526	4.63E-04	593	9.99E-04	660	3.59E-04	727	5.15E-05
393	4.50E-06	460	3.00E-04	527	4.71E-04	594	9.96E-04	661	3.51E-04	728	5.03E-05
394	6.30E-06	461	2.79E-04	528	4.78E-04	595	9.93E-04	662	3.41E-04	729	4.85E-05
395	5.40E-06	462	2.67E-04	529	4.86E-04	596	9.93E-04	663	3.33E-04	730	4.69E-05
396	6.50E-06	463	2.53E-04	530	4.93E-04	597	9.93E-04	664	3.24E-04	731	4.60E-05
397	7.10E-06	464	2.41E-04	531	4.99E-04	598	9.93E-04	665	3.15E-04	732	4.44E-05
398	6.70E-06	465	2.27E-04	532	5.06E-04	599	9.92E-04	666	3.08E-04	733	4.35E-05
399	7.70E-06	466	2.16E-04	533	5.13E-04	600	9.91E-04	667	2.99E-04	734	4.20E-05
400	9.30E-06	467	2.03E-04	534	5.21E-04	601	9.86E-04	668	2.91E-04	735	4.06E-05
401	9.90E-06	468	1.89E-04	535	5.28E-04	602	9.84E-04	669	2.83E-04	736	3.94E-05
402	1.07E-05	469	1.77E-04	536	5.33E-04	603	9.77E-04	670	2.75E-04	737	3.83E-05
403	1.13E-05	470	1.65E-04	537	5.42E-04	604	9.74E-04	671	2.68E-04	738	3.73E-05
404	1.30E-05	471	1.49E-04	538	5.47E-04	605	9.66E-04	672	2.60E-04	739	3.62E-05
405	1.34E-05	472	1.41E-04	539	5.54E-04	606	9.59E-04	673	2.52E-04	740	3.52E-05
406	1.52E-05	473	1.31E-04	540	5.63E-04	607	9.54E-04	674	2.46E-04	741	3.40E-05
407	1.70E-05	474	1.25E-04	541	5.70E-04	608	9.44E-04	675	2.39E-04	742	3.33E-05
408	2.00E-05	475	1.19E-04	542	5.79E-04	609	9.39E-04	676	2.32E-04	743	3.21E-05
409	2.19E-05	476	1.15E-04	543	5.85E-04	610	9.29E-04	677	2.26E-04	744	3.15E-05
410	2.34E-05	477	1.11E-04	544	5.92E-04	611	9.23E-04	678	2.19E-04	745	3.01E-05
411	2.80E-05	478	1.10E-04	545	6.00E-04	612	9.15E-04	679	2.13E-04	746	2.98E-05
412	3.13E-05	479	1.08E-04	546	6.08E-04	613	9.07E-04	680	2.08E-04	747	2.87E-05
413	3.40E-05	480	1.06E-04	547	6.15E-04	614	8.97E-04	681	2.01E-04	748	2.76E-05
414	3.90E-05	481	1.05E-04	548	6.24E-04	615	8.89E-04	682	1.96E-04	749	2.67E-05
415	4.39E-05	482	1.05E-04	549	6.32E-04	616	8.79E-04	683	1.90E-04	750	2.65E-05
416	4.78E-05	483	1.05E-04	550	6.40E-04	617	8.66E-04	684	1.85E-04	751	2.55E-05
417	5.45E-05	484	1.06E-04	551	6.50E-04	618	8.54E-04	685	1.80E-04	752	2.49E-05
418	6.08E-05	485	1.08E-04	552	6.58E-04	619	8.42E-04	686	1.74E-04	753	2.38E-05
419	6.61E-05	486	1.09E-04	553	6.69E-04	620	8.31E-04	687	1.70E-04	754	2.31E-05
420	7.52E-05	487	1.12E-04	554	6.77E-04	621	8.18E-04	688	1.65E-04	755	2.29E-05
421	8.27E-05	488	1.15E-04	555	6.88E-04	622	8.08E-04	689	1.61E-04	756	2.19E-05
422	9.07E-05	489	1.18E-04	556	6.97E-04	623	7.96E-04	690	1.56E-04	757	2.15E-05
423	9.87E-05	490	1.22E-04	557	7.08E-04	624	7.84E-04	691	1.51E-04	758	2.06E-05
424	1.09E-04	491	1.26E-04	558	7.16E-04	625	7.72E-04	692	1.46E-04	759	2.01E-05
425	1.19E-04	492	1.32E-04	559	7.27E-04	626	7.60E-04	693	1.42E-04	760	1.97E-05
426	1.29E-04	493	1.38E-04	560	7.36E-04	627	7.48E-04	694	1.38E-04	761	1.90E-05
427	1.41E-04	494	1.44E-04	561	7.47E-04	628	7.36E-04	695	1.34E-04	762	1.88E-05
428	1.53E-04	495	1.52E-04	562	7.58E-04	629	7.23E-04	696	1.30E-04	763	1.80E-05
429	1.66E-04	496	1.60E-04	563	7.68E-04	630	7.12E-04	697	1.26E-04	764	1.76E-05
430	1.80E-04	497	1.69E-04	564	7.79E-04	631	6.97E-04	698	1.23E-04	765	1.70E-05
431	1.94E-04	498	1.78E-04	565	7.89E-04	632	6.85E-04	699	1.19E-04	766	1.66E-05
432	2.10E-04	499	1.88E-04	566	8.02E-04	633	6.71E-04	700	1.16E-04	767	1.61E-05
433	2.24E-04	500	1.97E-04	567	8.12E-04	634	6.59E-04	701	1.12E-04	768	1.55E-05
434	2.40E-04	501	2.07E-04	568	8.23E-04	635	6.46E-04	702	1.09E-04	769	1.54E-05
435	2.58E-04	502	2.18E-04	569	8.33E-04	636	6.33E-04	703	1.05E-04	770	1.47E-05
436	2.78E-04	503	2.28E-04	570	8.45E-04	637	6.19E-04	704	1.03E-04	771	1.42E-05
437	2.98E-04	504	2.38E-04	571	8.56E-04	638	6.08E-04	705	9.91E-05	772	1.40E-05
438	3.21E-04	505	2.50E-04	572	8.64E-04	639	5.96E-04	706	9.66E-05	773	1.38E-05
439	3.46E-04	506	2.61E-04	573	8.74E-04	640	5.83E-04	707	9.39E-05	774	1.33E-05
440	3.71E-04	507	2.72E-04	574	8.84E-04	641	5.66E-04	708	9.13E-05	775	1.25E-05
441	4.02E-04	508	2.83E-04	575	8.95E-04	642	5.53E-04	709	8.85E-05	776	1.25E-05
442	4.34E-04	509	2.94E-04	576	9.03E-04	643	5.42E-04	710	8.58E-05	777	1.20E-05
443	4.64E-04	510	3.06E-04	577	9.15E-04	644	5.31E-04	711	8.29E-05	778	1.18E-05
444	4.96E-04	511	3.17E-04	578	9.24E-04	645	5.19E-04	712	8.09E-05	779	1.17E-05
445	5.26E-04	512	3.28E-04	579	9.33E-04	646	5.06E-04	713	7.82E-05	780	1.18E-05
446	5.53E-04	513	3.38E-04	580	9.42E-04	647	4.97E-04	714	7.61E-05	N/A	N/A

IES TM-30-18 Color Rendition Result (CCT Setting=4000K):

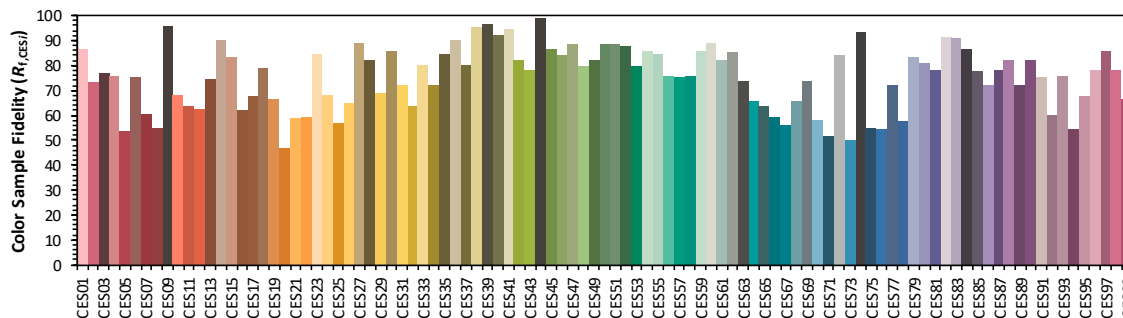
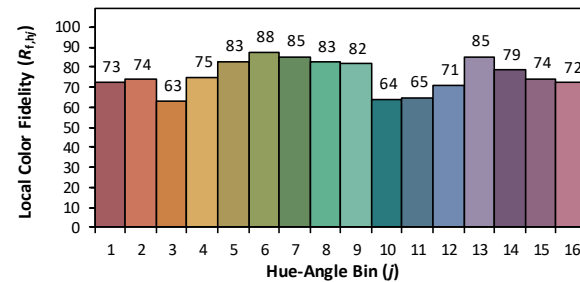
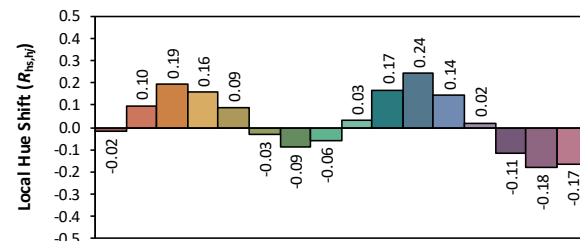
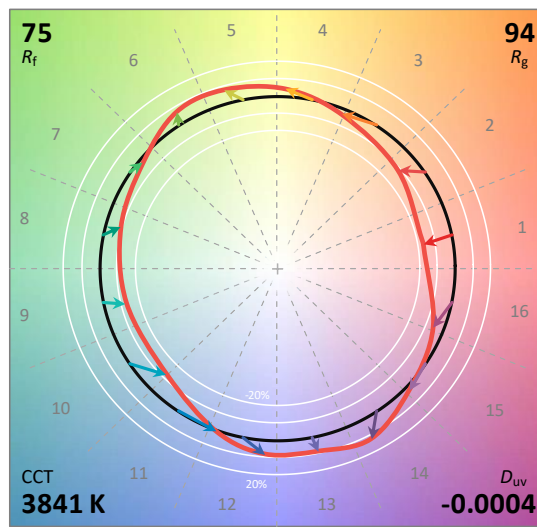
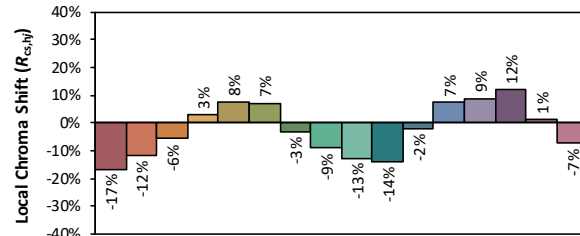
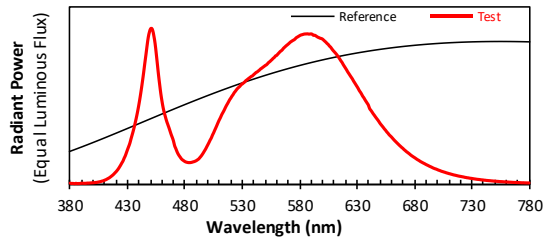
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: Reno LED Lighting Inc

Date: 2024/1/24

Model: RENO-SB-150W-MW-DV-MCCT-G2-R2



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

x 0.3874
 y 0.3802
 u' 0.2283
 v' 0.5041

CIE 13.3-1995
(CRI)

R_a 74
 R_g -27

Spectrum Data (CCT Setting=4000K):

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	7.70E-06	447	8.86E-04	514	4.71E-04	581	9.54E-04	648	4.13E-04	715	5.92E-05
381	5.40E-06	448	9.38E-04	515	4.86E-04	582	9.56E-04	649	4.03E-04	716	5.76E-05
382	5.80E-06	449	9.72E-04	516	5.01E-04	583	9.58E-04	650	3.91E-04	717	5.58E-05
383	5.10E-06	450	9.93E-04	517	5.14E-04	584	9.60E-04	651	3.81E-04	718	5.39E-05
384	4.10E-06	451	9.97E-04	518	5.27E-04	585	9.61E-04	652	3.72E-04	719	5.24E-05
385	6.50E-06	452	9.81E-04	519	5.41E-04	586	9.61E-04	653	3.63E-04	720	5.10E-05
386	4.20E-06	453	9.45E-04	520	5.51E-04	587	9.62E-04	654	3.53E-04	721	4.97E-05
387	5.30E-06	454	8.99E-04	521	5.63E-04	588	9.60E-04	655	3.45E-04	722	4.81E-05
388	4.50E-06	455	8.35E-04	522	5.74E-04	589	9.61E-04	656	3.35E-04	723	4.69E-05
389	6.70E-06	456	7.66E-04	523	5.86E-04	590	9.61E-04	657	3.27E-04	724	4.48E-05
390	6.50E-06	457	6.97E-04	524	5.95E-04	591	9.59E-04	658	3.17E-04	725	4.37E-05
391	6.90E-06	458	6.36E-04	525	6.05E-04	592	9.52E-04	659	3.10E-04	726	4.20E-05
392	6.40E-06	459	5.78E-04	526	6.14E-04	593	9.53E-04	660	3.03E-04	727	4.14E-05
393	6.50E-06	460	5.31E-04	527	6.20E-04	594	9.50E-04	661	2.95E-04	728	3.97E-05
394	6.90E-06	461	4.90E-04	528	6.27E-04	595	9.45E-04	662	2.86E-04	729	3.86E-05
395	7.90E-06	462	4.58E-04	529	6.37E-04	596	9.40E-04	663	2.79E-04	730	3.77E-05
396	7.80E-06	463	4.31E-04	530	6.41E-04	597	9.37E-04	664	2.71E-04	731	3.64E-05
397	8.30E-06	464	4.05E-04	531	6.48E-04	598	9.34E-04	665	2.64E-04	732	3.51E-05
398	9.10E-06	465	3.84E-04	532	6.53E-04	599	9.32E-04	666	2.57E-04	733	3.41E-05
399	9.50E-06	466	3.63E-04	533	6.62E-04	600	9.28E-04	667	2.49E-04	734	3.29E-05
400	9.80E-06	467	3.41E-04	534	6.67E-04	601	9.21E-04	668	2.43E-04	735	3.19E-05
401	1.07E-05	468	3.19E-04	535	6.74E-04	602	9.15E-04	669	2.36E-04	736	3.12E-05
402	1.16E-05	469	2.99E-04	536	6.79E-04	603	9.08E-04	670	2.30E-04	737	3.04E-05
403	1.23E-05	470	2.78E-04	537	6.85E-04	604	9.00E-04	671	2.23E-04	738	2.91E-05
404	1.38E-05	471	2.47E-04	538	6.90E-04	605	8.94E-04	672	2.17E-04	739	2.84E-05
405	1.54E-05	472	2.30E-04	539	6.94E-04	606	8.84E-04	673	2.10E-04	740	2.77E-05
406	1.69E-05	473	2.11E-04	540	7.02E-04	607	8.77E-04	674	2.04E-04	741	2.65E-05
407	1.89E-05	474	1.95E-04	541	7.08E-04	608	8.67E-04	675	1.99E-04	742	2.59E-05
408	2.12E-05	475	1.83E-04	542	7.15E-04	609	8.57E-04	676	1.93E-04	743	2.48E-05
409	2.30E-05	476	1.73E-04	543	7.19E-04	610	8.49E-04	677	1.87E-04	744	2.43E-05
410	2.65E-05	477	1.62E-04	544	7.25E-04	611	8.41E-04	678	1.81E-04	745	2.35E-05
411	2.93E-05	478	1.56E-04	545	7.30E-04	612	8.32E-04	679	1.76E-04	746	2.31E-05
412	3.33E-05	479	1.51E-04	546	7.38E-04	613	8.23E-04	680	1.72E-04	747	2.22E-05
413	3.74E-05	480	1.46E-04	547	7.42E-04	614	8.12E-04	681	1.67E-04	748	2.17E-05
414	4.15E-05	481	1.42E-04	548	7.48E-04	615	8.01E-04	682	1.62E-04	749	2.09E-05
415	4.68E-05	482	1.40E-04	549	7.54E-04	616	7.89E-04	683	1.57E-04	750	2.02E-05
416	5.26E-05	483	1.39E-04	550	7.59E-04	617	7.79E-04	684	1.53E-04	751	1.98E-05
417	5.85E-05	484	1.39E-04	551	7.64E-04	618	7.66E-04	685	1.48E-04	752	1.91E-05
418	6.55E-05	485	1.39E-04	552	7.71E-04	619	7.54E-04	686	1.43E-04	753	1.87E-05
419	7.33E-05	486	1.41E-04	553	7.79E-04	620	7.43E-04	687	1.39E-04	754	1.79E-05
420	8.09E-05	487	1.43E-04	554	7.84E-04	621	7.31E-04	688	1.35E-04	755	1.74E-05
421	8.98E-05	488	1.45E-04	555	7.91E-04	622	7.18E-04	689	1.32E-04	756	1.71E-05
422	9.97E-05	489	1.48E-04	556	7.98E-04	623	7.07E-04	690	1.28E-04	757	1.66E-05
423	1.11E-04	490	1.52E-04	557	8.06E-04	624	6.96E-04	691	1.24E-04	758	1.60E-05
424	1.23E-04	491	1.57E-04	558	8.12E-04	625	6.85E-04	692	1.20E-04	759	1.56E-05
425	1.37E-04	492	1.62E-04	559	8.21E-04	626	6.74E-04	693	1.17E-04	760	1.53E-05
426	1.49E-04	493	1.71E-04	560	8.24E-04	627	6.61E-04	694	1.13E-04	761	1.50E-05
427	1.67E-04	494	1.79E-04	561	8.33E-04	628	6.49E-04	695	1.10E-04	762	1.44E-05
428	1.82E-04	495	1.90E-04	562	8.40E-04	629	6.37E-04	696	1.06E-04	763	1.38E-05
429	2.03E-04	496	2.01E-04	563	8.48E-04	630	6.25E-04	697	1.03E-04	764	1.36E-05
430	2.23E-04	497	2.13E-04	564	8.54E-04	631	6.14E-04	698	9.98E-05	765	1.30E-05
431	2.43E-04	498	2.25E-04	565	8.61E-04	632	6.00E-04	699	9.75E-05	766	1.25E-05
432	2.63E-04	499	2.39E-04	566	8.70E-04	633	5.89E-04	700	9.44E-05	767	1.21E-05
433	2.91E-04	500	2.53E-04	567	8.77E-04	634	5.77E-04	701	9.11E-05	768	1.20E-05
434	3.16E-04	501	2.68E-04	568	8.84E-04	635	5.63E-04	702	8.87E-05	769	1.17E-05
435	3.43E-04	502	2.83E-04	569	8.90E-04	636	5.53E-04	703	8.56E-05	770	1.12E-05
436	3.73E-04	503	2.96E-04	570	8.96E-04	637	5.41E-04	704	8.29E-05	771	1.13E-05
437	4.05E-04	504	3.14E-04	571	9.02E-04	638	5.29E-04	705	8.07E-05	772	1.07E-05
438	4.38E-04	505	3.29E-04	572	9.09E-04	639	5.18E-04	706	7.83E-05	773	1.03E-05
439	4.75E-04	506	3.46E-04	573	9.14E-04	640	5.06E-04	707	7.62E-05	774	9.80E-06
440	5.16E-04	507	3.62E-04	574	9.19E-04	641	4.85E-04	708	7.33E-05	775	1.01E-05
441	5.60E-04	508	3.79E-04	575	9.23E-04	642	4.74E-04	709	7.15E-05	776	9.50E-06
442	6.08E-04	509	3.97E-04	576	9.29E-04	643	4.64E-04	710	6.89E-05	777	9.40E-06
443	6.60E-04	510	4.13E-04	577	9.37E-04	644	4.53E-04	711	6.73E-05	778	9.00E-06
444	7.14E-04	511	4.27E-04	578	9.41E-04	645	4.43E-04	712	6.51E-05	779	9.00E-06
445	7.73E-04	512	4.44E-04	579	9.46E-04	646	4.32E-04	713	6.31E-05	780	9.00E-06
446	8.28E-04	513	4.57E-04	580	9.50E-04	647	4.22E-04	714	6.09E-05	N/A	N/A

IES TM-30-18 Color Rendition Result (CCT Setting=5000K):

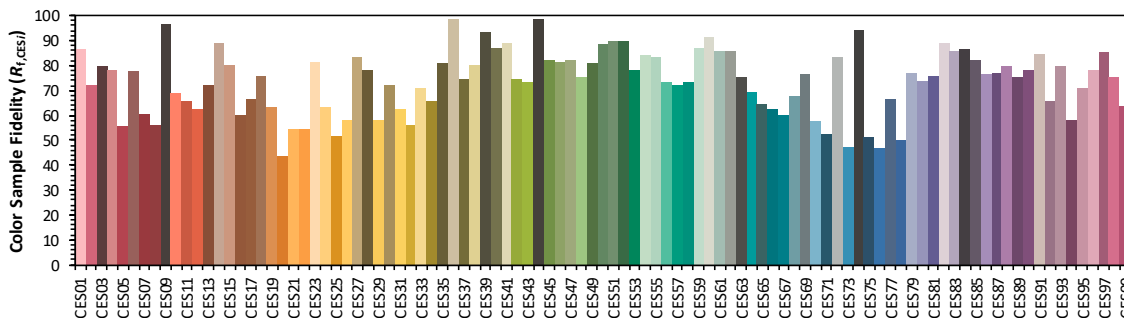
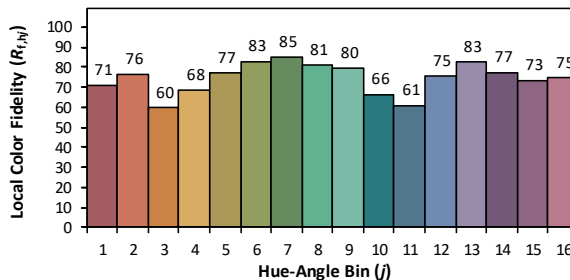
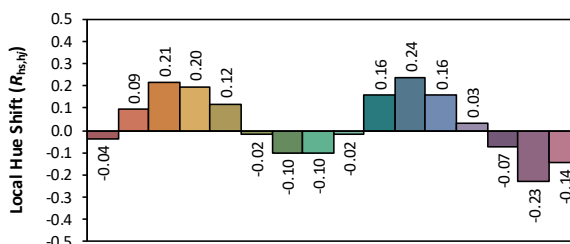
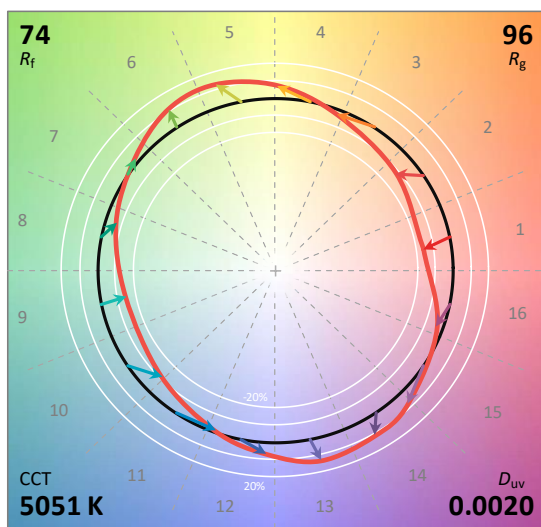
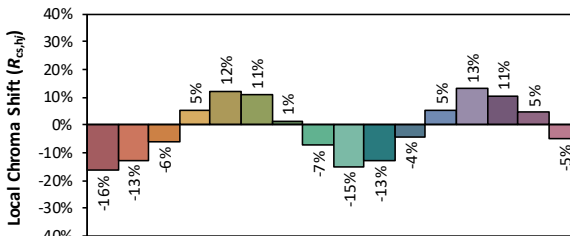
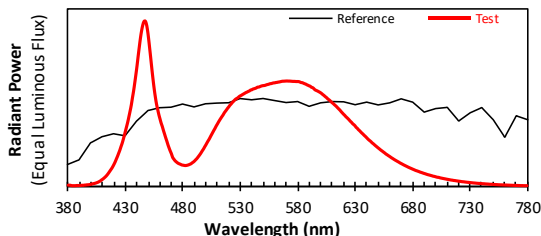
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: Reno LED Lighting Inc

Date: 2024/1/24

Model: RENO-SB-150W-MW-DV-MCCT-G2-R2



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

x 0.3440
 y 0.3548
 u' 0.2095
 v' 0.4861

CIE 13.3-1995
(CRI)

R_a 73
 R_g -27

Spectrum Data (CCT Setting=5000K):

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	1.01E-05	447	9.98E-04	514	4.22E-04	581	6.33E-04	648	2.47E-04	715	3.99E-05
381	1.00E-05	448	9.83E-04	515	4.32E-04	582	6.30E-04	649	2.41E-04	716	3.84E-05
382	9.10E-06	449	9.48E-04	516	4.44E-04	583	6.27E-04	650	2.35E-04	717	3.78E-05
383	7.30E-06	450	8.95E-04	517	4.54E-04	584	6.26E-04	651	2.30E-04	718	3.65E-05
384	6.90E-06	451	8.33E-04	518	4.63E-04	585	6.24E-04	652	2.24E-04	719	3.55E-05
385	7.00E-06	452	7.69E-04	519	4.73E-04	586	6.20E-04	653	2.19E-04	720	3.46E-05
386	6.80E-06	453	7.04E-04	520	4.81E-04	587	6.18E-04	654	2.14E-04	721	3.35E-05
387	7.60E-06	454	6.42E-04	521	4.91E-04	588	6.14E-04	655	2.08E-04	722	3.27E-05
388	8.10E-06	455	5.86E-04	522	4.98E-04	589	6.11E-04	656	2.03E-04	723	3.14E-05
389	7.60E-06	456	5.38E-04	523	5.07E-04	590	6.07E-04	657	1.97E-04	724	3.07E-05
390	8.50E-06	457	4.96E-04	524	5.14E-04	591	6.05E-04	658	1.93E-04	725	3.01E-05
391	8.30E-06	458	4.65E-04	525	5.21E-04	592	5.99E-04	659	1.88E-04	726	2.90E-05
392	9.60E-06	459	4.34E-04	526	5.28E-04	593	5.97E-04	660	1.84E-04	727	2.83E-05
393	9.00E-06	460	4.09E-04	527	5.32E-04	594	5.92E-04	661	1.79E-04	728	2.73E-05
394	1.04E-05	461	3.83E-04	528	5.36E-04	595	5.84E-04	662	1.74E-04	729	2.68E-05
395	1.07E-05	462	3.63E-04	529	5.43E-04	596	5.81E-04	663	1.70E-04	730	2.59E-05
396	1.19E-05	463	3.39E-04	530	5.47E-04	597	5.78E-04	664	1.65E-04	731	2.51E-05
397	1.23E-05	464	3.17E-04	531	5.51E-04	598	5.74E-04	665	1.61E-04	732	2.45E-05
398	1.29E-05	465	2.95E-04	532	5.55E-04	599	5.70E-04	666	1.57E-04	733	2.36E-05
399	1.42E-05	466	2.74E-04	533	5.59E-04	600	5.66E-04	667	1.53E-04	734	2.31E-05
400	1.51E-05	467	2.52E-04	534	5.63E-04	601	5.61E-04	668	1.49E-04	735	2.25E-05
401	1.76E-05	468	2.33E-04	535	5.67E-04	602	5.55E-04	669	1.45E-04	736	2.17E-05
402	1.90E-05	469	2.14E-04	536	5.70E-04	603	5.50E-04	670	1.41E-04	737	2.12E-05
403	2.07E-05	470	1.98E-04	537	5.74E-04	604	5.43E-04	671	1.38E-04	738	2.06E-05
404	2.27E-05	471	1.78E-04	538	5.77E-04	605	5.38E-04	672	1.34E-04	739	2.01E-05
405	2.52E-05	472	1.68E-04	539	5.82E-04	606	5.31E-04	673	1.30E-04	740	1.94E-05
406	2.80E-05	473	1.58E-04	540	5.84E-04	607	5.25E-04	674	1.27E-04	741	1.89E-05
407	3.17E-05	474	1.52E-04	541	5.88E-04	608	5.20E-04	675	1.23E-04	742	1.85E-05
408	3.56E-05	475	1.46E-04	542	5.90E-04	609	5.13E-04	676	1.20E-04	743	1.81E-05
409	4.12E-05	476	1.41E-04	543	5.92E-04	610	5.07E-04	677	1.17E-04	744	1.74E-05
410	4.58E-05	477	1.38E-04	544	5.95E-04	611	5.01E-04	678	1.13E-04	745	1.70E-05
411	5.14E-05	478	1.35E-04	545	5.99E-04	612	4.94E-04	679	1.11E-04	746	1.66E-05
412	5.76E-05	479	1.32E-04	546	6.00E-04	613	4.89E-04	680	1.07E-04	747	1.59E-05
413	6.43E-05	480	1.30E-04	547	6.02E-04	614	4.82E-04	681	1.04E-04	748	1.55E-05
414	7.24E-05	481	1.29E-04	548	6.05E-04	615	4.75E-04	682	1.01E-04	749	1.53E-05
415	8.16E-05	482	1.28E-04	549	6.07E-04	616	4.68E-04	683	9.83E-05	750	1.48E-05
416	9.15E-05	483	1.29E-04	550	6.09E-04	617	4.60E-04	684	9.62E-05	751	1.43E-05
417	1.02E-04	484	1.30E-04	551	6.09E-04	618	4.52E-04	685	9.36E-05	752	1.39E-05
418	1.12E-04	485	1.33E-04	552	6.11E-04	619	4.45E-04	686	9.11E-05	753	1.35E-05
419	1.24E-04	486	1.36E-04	553	6.14E-04	620	4.37E-04	687	8.82E-05	754	1.32E-05
420	1.37E-04	487	1.39E-04	554	6.16E-04	621	4.31E-04	688	8.61E-05	755	1.26E-05
421	1.51E-04	488	1.44E-04	555	6.18E-04	622	4.23E-04	689	8.37E-05	756	1.24E-05
422	1.68E-04	489	1.49E-04	556	6.20E-04	623	4.16E-04	690	8.12E-05	757	1.20E-05
423	1.84E-04	490	1.55E-04	557	6.21E-04	624	4.10E-04	691	7.91E-05	758	1.19E-05
424	2.03E-04	491	1.62E-04	558	6.23E-04	625	4.02E-04	692	7.67E-05	759	1.14E-05
425	2.21E-04	492	1.69E-04	559	6.25E-04	626	3.94E-04	693	7.44E-05	760	1.12E-05
426	2.42E-04	493	1.78E-04	560	6.26E-04	627	3.88E-04	694	7.24E-05	761	1.08E-05
427	2.62E-04	494	1.87E-04	561	6.27E-04	628	3.80E-04	695	7.07E-05	762	1.08E-05
428	2.86E-04	495	1.96E-04	562	6.28E-04	629	3.74E-04	696	6.86E-05	763	1.03E-05
429	3.12E-04	496	2.07E-04	563	6.30E-04	630	3.67E-04	697	6.68E-05	764	1.01E-05
430	3.39E-04	497	2.18E-04	564	6.31E-04	631	3.58E-04	698	6.44E-05	765	9.90E-06
431	3.65E-04	498	2.28E-04	565	6.32E-04	632	3.52E-04	699	6.30E-05	766	9.50E-06
432	3.93E-04	499	2.41E-04	566	6.34E-04	633	3.44E-04	700	6.13E-05	767	9.30E-06
433	4.25E-04	500	2.52E-04	567	6.35E-04	634	3.38E-04	701	5.91E-05	768	9.00E-06
434	4.58E-04	501	2.65E-04	568	6.35E-04	635	3.30E-04	702	5.75E-05	769	8.70E-06
435	4.93E-04	502	2.77E-04	569	6.36E-04	636	3.23E-04	703	5.68E-05	770	8.60E-06
436	5.36E-04	503	2.88E-04	570	6.36E-04	637	3.17E-04	704	5.46E-05	771	8.30E-06
437	5.77E-04	504	3.02E-04	571	6.36E-04	638	3.10E-04	705	5.29E-05	772	8.10E-06
438	6.25E-04	505	3.15E-04	572	6.36E-04	639	3.04E-04	706	5.15E-05	773	7.80E-06
439	6.76E-04	506	3.27E-04	573	6.36E-04	640	2.97E-04	707	5.01E-05	774	7.60E-06
440	7.29E-04	507	3.40E-04	574	6.35E-04	641	2.90E-04	708	4.87E-05	775	7.30E-06
441	7.88E-04	508	3.52E-04	575	6.35E-04	642	2.83E-04	709	4.74E-05	776	7.40E-06
442	8.43E-04	509	3.66E-04	576	6.34E-04	643	2.77E-04	710	4.59E-05	777	7.10E-06
443	8.97E-04	510	3.77E-04	577	6.34E-04	644	2.71E-04	711	4.47E-05	778	6.90E-06
444	9.40E-04	511	3.90E-04	578	6.34E-04	645	2.64E-04	712	4.33E-05	779	7.00E-06
445	9.73E-04	512	4.01E-04	579	6.33E-04	646	2.59E-04	713	4.20E-05	780	7.00E-06
446	9.94E-04	513	4.12E-04	580	6.33E-04	647	2.53E-04	714	4.07E-05	N/A	N/A

Goniophotometer Test Results:

Test Condition:

Test Ambient (°C)	Test Humidity (%)	Orientation	Stabilization Time (minute)	Test Time (minute)
24.8	42.7	Face Down	90	25

Electrical Data:

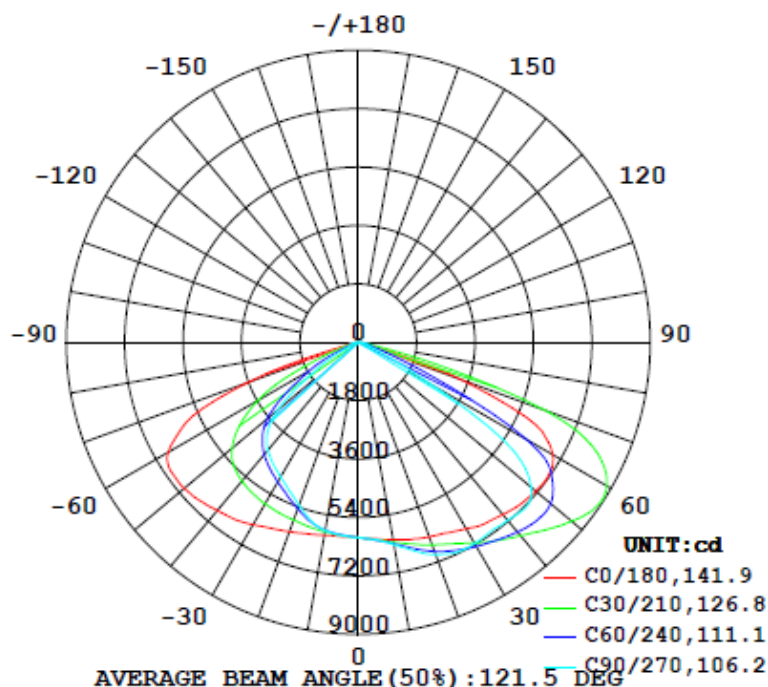
Voltage (V)	Frequency (Hz)	Current (A)	Wattage (W)	Power Factor
120.0	60	1.2801	152.87	0.9952

Goniophotometer Data:

Parameter	Results		
	3000K	4000K	5000K
Total Luminous (lm)	23394.9	25226.0	24331.3
Luminous Efficacy (lm/W)	153.04	171.29	159.13
Zonal Lumens Distribution (0-90°)	100.0%	100.0%	100.0%
Zonal Lumens Distribution (80-90°)	0.4%	0.4%	0.3%
Beam Angle (°)	121.5	121.7	121.6
BUG	B4-U0-G3	B4-U0-G3	B4-U0-G3

Luminous Intensity Distribution Diagram (CCT Setting=3000K):

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

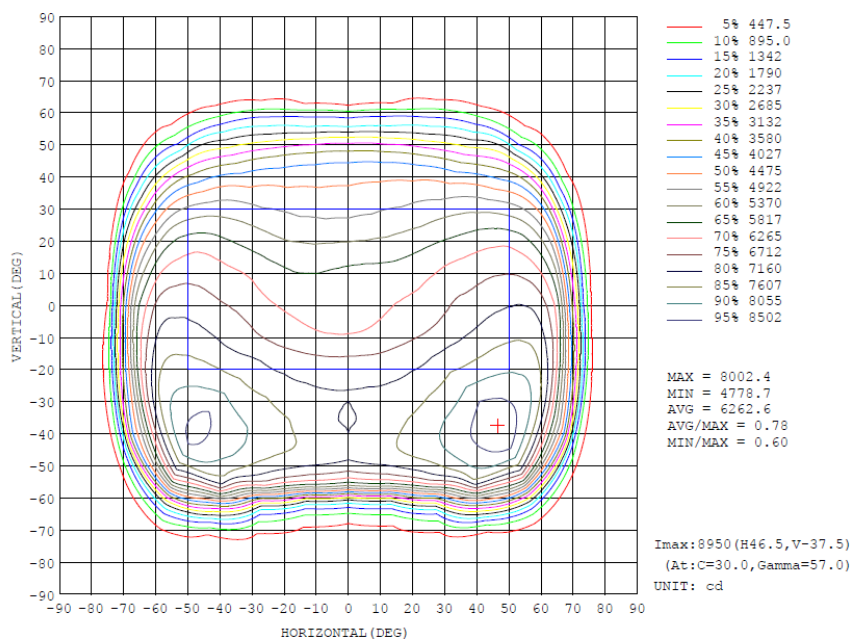


Zonal Flux Diagram (CCT Setting=3000K):

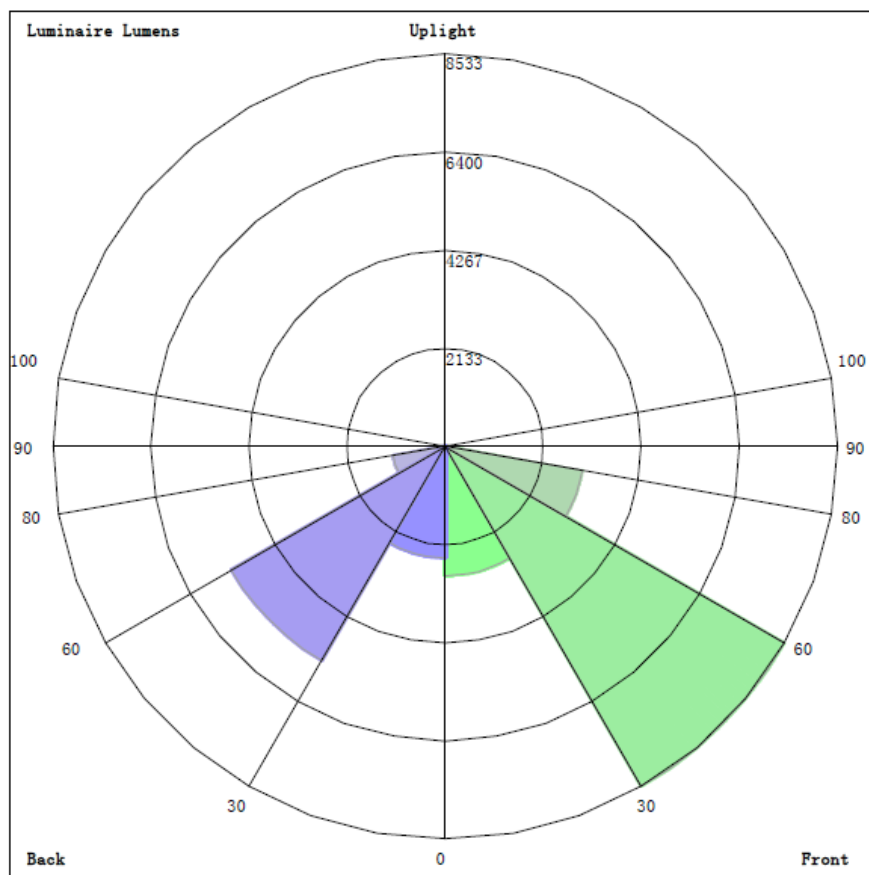
ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zone	φ total	lum, lamp
10	6178	6282	6327	6198	6041	5906	5888	6014	0~ 10	578.9	578.9	2.47,2.47
20	6387	6766	6962	6692	6211	5629	5348	5782	10~ 20	1750	2329	9.96,9.96
30	6640	7255	7160	7219	6489	5283	4800	5465	20~ 30	2896	5226	22.3,22.3
40	6930	7766	7163	7708	6767	4908	4342	5064	30~ 40	3978	9203	39.3,39.3
50	7143	8264	6957	8108	7004	4146	3226	4219	40~ 50	4895	14098	60.3,60.3
60	6928	7997	2548	7799	6760	2383	1021	2390	50~ 60	5027	19126	81.8,81.8
70	3410	3329	368.2	3371	3620	404.2	278.2	387.2	60~ 70	3338	22464	96,96
80	165.8	216.6	186.2	214.0	187.9	117.4	125.5	113.3	70~ 80	842.1	23306	99.6,99.6
90	0	0	0	0	0	0	0	0	80~ 90	88.68	23395	100,100
100	0	0	0	0	0	0	0	0	90~100	0	23395	100,100
110	0	0	0	0	0	0	0	0	100~110	0	23395	100,100
120	0	0	0	0	0	0	0	0	110~120	0	23395	100,100
130	0	0	0	0	0	0	0	0	120~130	0	23395	100,100
140	0	0	0	0	0	0	0	0	130~140	0	23395	100,100
150	0	0	0	0	0	0	0	0	140~150	0	23395	100,100
160	0	0	0	0	0	0	0	0	150~160	0	23395	100,100
170	0	0	0	0	0	0	0	0	160~170	0	23395	100,100
180	0	0	0	0	0	0	0	0	170~180	0	23395	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Isocandela Diagram (CCT Setting=3000K):



BUG Rating (CCT Setting=3000K):



LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2808.5	N.A.	12.0
FM - Front-Medium (30-60)	8533.2	N.A.	36.5
FH - Front-High (60-80)	3027.5	N.A.	12.9
FVH - Front-Very High (80-90)	61.0	N.A.	0.3
BL - Back-Low (0-30)	2417.1	N.A.	10.3
BM - Back-Medium (30-60)	5366.8	N.A.	22.9
BH - Back-High (60-80)	1153.0	N.A.	4.9
BVH - Back-Very High (80-90)	27.7	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	23394.8	N.A.	100.0
BUG Rating	B4-U0-G3		

Luminous Distribution Intensity Data (CCT Setting=3000K):

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	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022	6022
5	6082	6099	6114	6115	6120	6118	6104	6104	6085	6059	6041	6022	6009	5986	5972	5961	5958	5965	5977
10	6178	6220	6256	6282	6305	6323	6327	6299	6261	6198	6140	6090	6041	5987	5941	5906	5882	5873	5888
15	6289	6373	6439	6512	6579	6635	6652	6612	6524	6424	6320	6218	6113	5997	5886	5794	5722	5684	5682
20	6387	6514	6643	6766	6862	6944	6962	6925	6835	6692	6533	6375	6211	6028	5826	5629	5461	5369	5348
25	6480	6652	6852	7007	7080	7134	7142	7117	7058	6934	6735	6525	6327	6106	5796	5456	5206	5070	5041
30	6640	6869	7146	7255	7270	7210	7160	7184	7242	7219	7035	6723	6489	6210	5753	5283	4975	4813	4800
35	6822	7102	7453	7506	7442	7256	7122	7228	7425	7475	7320	6947	6661	6281	5684	5113	4755	4594	4577
40	6930	7325	7781	7766	7630	7372	7163	7359	7626	7708	7605	7146	6767	6298	5583	4908	4513	4355	4342
45	7060	7591	8173	8044	7772	7480	7250	7478	7715	7942	7975	7408	6910	6326	5416	4604	4193	4006	3969
50	7143	7831	8583	8264	7735	7245	6957	7255	7647	8108	8335	7638	7004	6237	5083	4146	3653	3319	3226
55	7152	8013	8904	8285	7291	6352	5854	6417	7254	8105	8631	7821	7016	5904	4466	3405	2706	2154	1935
60	6928	8020	8849	7997	5984	3313	2548	3456	6165	7799	8666	7859	6760	5187	3560	2383	1706	1266	1021
65	6045	7289	8146	6863	2603	1107	846	1116	2567	6861	7985	7111	5868	3834	2126	1303	771	332	311
70	3410	5310	6110	3329	881	419	368	432	927	3371	6297	5005	3620	1805	730	404	309	279	278
75	672	1745	1900	694	358	281	260	285	377	899	2296	2032	460	344	253	241	233	224	223
80	166	212	284	217	224	176	186	179	236	214	340	220	188	190	111	117	136	137	126
85	66.2	81.0	130	123	104	115	115	117	113	121	143	85.6	75.7	53.3	41.9	39.5	38.1	33.6	16.3
90	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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) y (DEG)	285	300	315	330	345														
0	6022	6022	6022	6022	6022														
5	5987	6008	6027	6039	6067														
10	5919	5960	6014	6074	6129														
15	5731	5813	5927	6049	6175														
20	5426	5569	5782	6007	6208														
25	5134	5330	5631	5995	6284														
30	4891	5112	5465	5966	6387														
35	4679	4892	5292	5879	6463														
40	4440	4648	5064	5746	6474														
45	4078	4313	4733	5547	6464														
50	3367	3725	4219	5188	6360														
55	2206	2723	3437	4572	6047														
60	1308	1695	2390	3749	5403														
65	335	812	1300	2238	4156														
70	278	313	387	655	1698														
75	223	234	227	238	319														
80	139	129	113	107	171														
85	33.5	36.0	35.3	39.2	48.8														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

THD and PF Measurement Test Results:

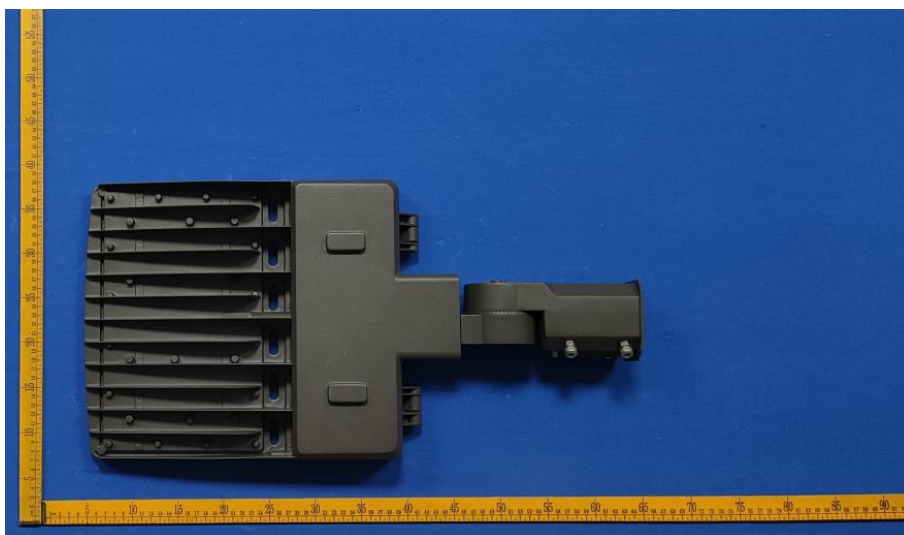
Electrical Measurement:

CCT Setting	Voltage (V)	Frequency (Hz)	Current (A)	Wattage (W)	Power Factor	iTHD(%)
3000K	120.0	60	1.2801	152.87	0.9952	6.79
	277.0	60	0.5559	148.60	0.9650	7.86
	347.0	60	0.4548	147.90	0.9371	9.88
4000K	120.0	60	1.2340	147.27	0.9945	6.69
	277.0	60	0.5280	141.10	0.9648	8.02
	347.0	60	0.4339	140.30	0.9319	10.26
5000K	120.0	60	1.2803	152.90	0.9952	6.68
	277.0	60	0.5607	149.90	0.9651	7.96
	347.0	60	0.4601	149.60	0.9371	10.06

Annex:

ANSI CCT Quadrangle (omit any outside product range)/Worst-Case Value	Actual CCT (K)	Power Consumption (W)	Lumen Output (lm)	Efficacy (lm/W)	Input Control Signal Applied
3000K	3059	152.87	23394.9	153.04	Set Switch 0% to 3000K
4000K	3841	147.27	25226.0	171.29	Set Switch 50% to 4000K
5000K	5048	152.90	24331.3	159.13	Set Switch 100% to 5000K
Lowest Efficacy	153.04 lm/W (@3000K)				
Maximum Power	152.90 W				

Photo of Sample:



Equipment List:

Equipment ID	Equipment Name	Last Cal.	Due Cal.
NTC-F01-001	Goniophotometer System	2023-11-08	2024-11-07
NTC-F01-006	2.0 meter Integrating Sphere	2023-11-08	2024-11-07
NTC-F01-012	Standard Lamp	2023-11-02	2024-11-01
NTC-F01-013	Standard Lamp	2023-11-02	2024-11-01
NTC-F01-031	Digital Power Meter	2023-08-25	2024-08-24
NTC-F01-020	Temperature & Humidity Meter	2023-11-06	2024-11-05

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