

LM-79-19 Test Report

For

Beyond LED Technology

1939 Parker Court, Stone Mountain, GA 30087

WPE WALL PACK LIGHT

Model Name(s):

BLTWPE125WSCSALVP

Representative (Tested) Model:

XWPE125WSCSALV

Model Difference:

1. Product is CCT tunable, can be tunable from 3000K, 4000K and 5000K;
2. X represents Sensor function, can be S for Motion Sensor, BS for Wireless Control version Sensor or blank for without sensor;
3. Y represents Photocell function, can be P for with photocell or blank for without photocell;
4. Z represents emergency function, can be E for with emergency or blank for without emergency;
5. All is same construction, except function and model design.

Prepared by:

Alan Wang

Engineer: Alan Wang

Date: 2024-04-30

Reviewed by:

Vincent Yuan

Technical Lead: Vincent Yuan

Issue Date: 2024-05-16

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:	Beyond LED Technology
Brand Name:	Beyond LED Technology
Manufacturer Name:	Beyond LED Technology
Manufacturer Address:	1939 Parker Court, Stone Mountain, GA 30087

Product Information:

Model Number:	BLTWPE125WSCSALVP
Product Type:	Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted Area Luminaires
Rating Input:	120-347Vac, 50/60Hz, 125W
Declared CCT:	3000K, 4000K and 5000K
Declared Light Output:	16280 lm
LED Manufacturer:	FOSHAN NATIONSTAR OPTOELECTRONICS CO., LTD.
LED Model:	FM-TP3528WLS-460WH1-R70-AW-2 and FM-TP3528WCS-460WH1-R70-AW-2
LED Quantity:	FM-TP3528WLS-460WH1-R70-AW-2: 196 pcs FM-TP3528WCS-460WH1-R70-AW-2: 196 pcs
LED Driver Manufacturer:	Shenzhen Ankom Technology Co., Ltd.
LED Driver Model:	AL-120NBS-130DAFO

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:	2024-03-24
Quantity of Receipt Samples:	1 pc
Sample Number:	240324009-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:	2024-05-16
Revised Date of Test Report:	N/A
Test Report No.:	NTCLR24040266
Remark (If applicable):	N/A

Test Specification:	
Date of Test	2024-04-01
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 $25\text{ }^{\circ}\text{C} \pm 1^{\circ}\text{C}$, 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 $25\text{ }^{\circ}\text{C} \pm 1^{\circ}\text{C}$. 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	1.0481	125.50	0.9978
4000K	120.0	60	1.0418	124.80	0.9983
5000K	120.0	60	1.0443	125.12	0.9984

Output Data:

CCT Setting	Luminous (lm)	Efficacy (lm/W)
3000K	16352.0	130.29
4000K	17448.0	139.81
5000K	16476.0	131.38

Color Data:

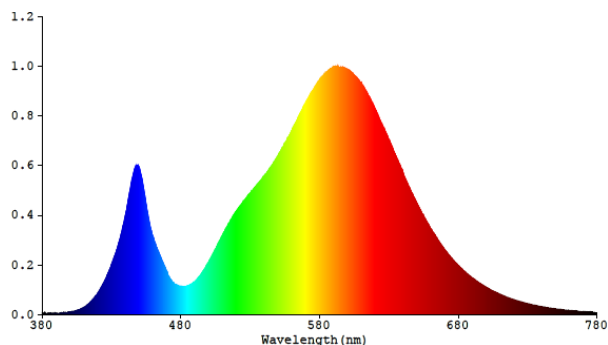
CCT Setting	Test CCT (K)	R _a	R ₉	R _f	R _g	R _{es, h1}	Chromaticity		
							(x, y)	(u', v')	Duv
3000K	3098	72.3	-31	75	95	-16%	(0.4278, 0.3966)	(0.2479, 0.5170)	-0.0017
4000K	4031	74.9	-19	76	95	-16%	(0.3780, 0.3719)	(0.2255, 0.4991)	-0.0016
5000K	5238	72.3	-28	73	95	-17%	(0.3389, 0.3522)	(0.2070, 0.4841)	0.0029

Specify Color Rendering:

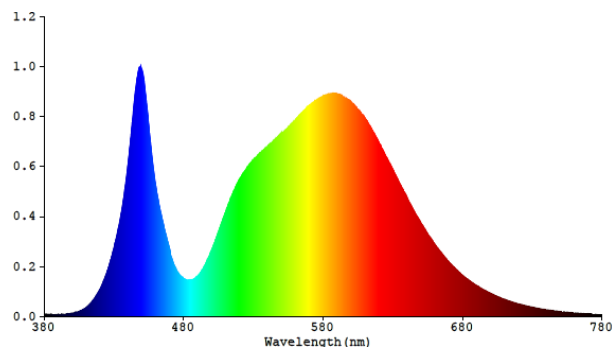
CCT Setting	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
3000K	69	82	93	68	68	75	78	45	-31	59	63	53	71	96	62
4000K	73	81	88	74	72	74	82	56	-19	55	70	49	74	93	67
5000K	70	76	80	74	72	68	80	58	-28	43	72	45	71	89	65

Spectrum Diagram:

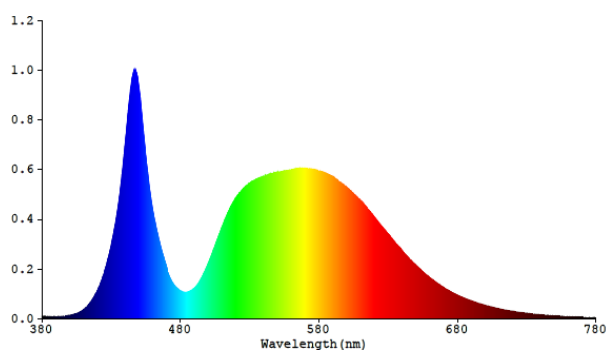
CCT Setting=3000K



CCT Setting=4000K



CCT Setting=5000K



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

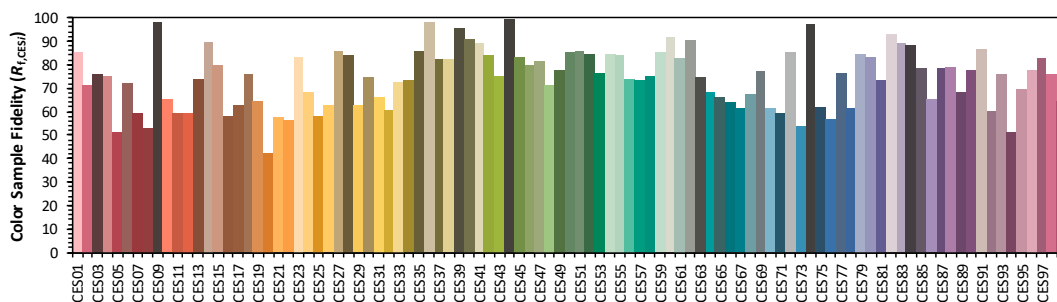
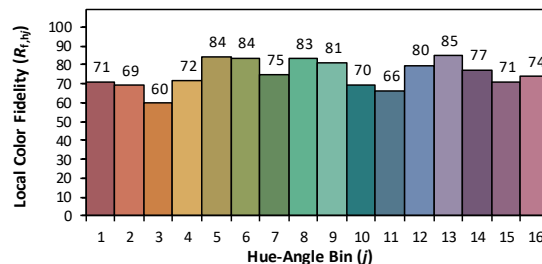
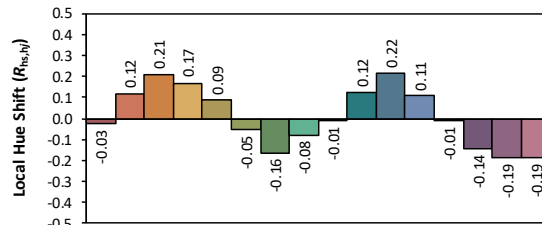
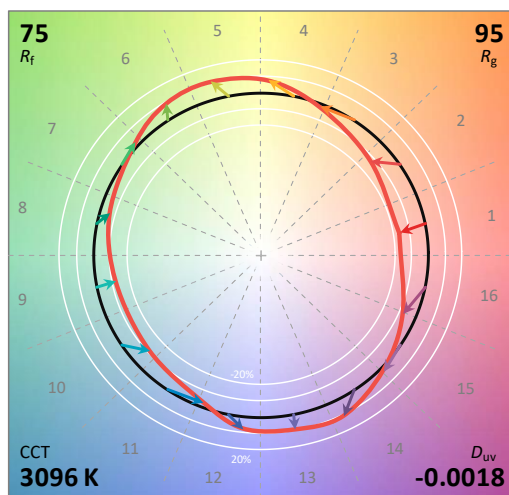
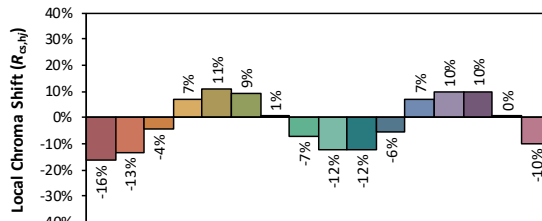
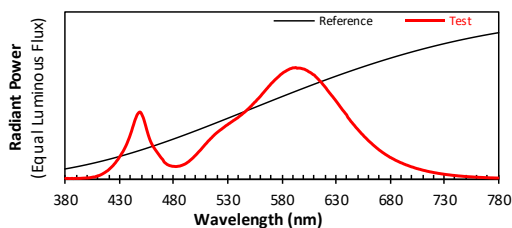
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: Shenzhen XinShengYang
Opto-electronics
Technology Co., Ltd

Date: 2024/4/30

Model: XWPE125WSCSALV



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

x 0.4278
 y 0.3964
 u' 0.2480
 v' 0.5170

CIE 13.3-1995
(CRI)

R_a 72
 R_g -31

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	6.70E-06	447	5.88E-04	514	3.61E-04	581	9.53E-04	648	4.71E-04	715	6.96E-05
381	5.60E-06	448	5.99E-04	515	3.70E-04	582	9.59E-04	649	4.59E-04	716	6.75E-05
382	6.60E-06	449	6.01E-04	516	3.81E-04	583	9.64E-04	650	4.49E-04	717	6.51E-05
383	4.60E-06	450	5.89E-04	517	3.90E-04	584	9.70E-04	651	4.38E-04	718	6.37E-05
384	5.30E-06	451	5.68E-04	518	4.00E-04	585	9.76E-04	652	4.27E-04	719	6.17E-05
385	5.10E-06	452	5.46E-04	519	4.08E-04	586	9.81E-04	653	4.16E-04	720	5.98E-05
386	6.60E-06	453	5.14E-04	520	4.17E-04	587	9.86E-04	654	4.05E-04	721	5.79E-05
387	4.60E-06	454	4.80E-04	521	4.24E-04	588	9.91E-04	655	3.97E-04	722	5.61E-05
388	5.30E-06	455	4.44E-04	522	4.32E-04	589	9.92E-04	656	3.84E-04	723	5.47E-05
389	6.30E-06	456	4.11E-04	523	4.40E-04	590	9.97E-04	657	3.75E-04	724	5.27E-05
390	5.80E-06	457	3.80E-04	524	4.46E-04	591	9.97E-04	658	3.66E-04	725	5.10E-05
391	5.90E-06	458	3.52E-04	525	4.54E-04	592	9.98E-04	659	3.56E-04	726	4.97E-05
392	6.40E-06	459	3.29E-04	526	4.61E-04	593	1.00E-03	660	3.46E-04	727	4.82E-05
393	6.50E-06	460	3.10E-04	527	4.68E-04	594	9.94E-04	661	3.37E-04	728	4.64E-05
394	6.90E-06	461	2.92E-04	528	4.76E-04	595	9.95E-04	662	3.29E-04	729	4.54E-05
395	7.70E-06	462	2.77E-04	529	4.83E-04	596	9.95E-04	663	3.20E-04	730	4.34E-05
396	8.30E-06	463	2.63E-04	530	4.89E-04	597	9.95E-04	664	3.11E-04	731	4.25E-05
397	8.80E-06	464	2.50E-04	531	4.97E-04	598	9.92E-04	665	3.02E-04	732	4.08E-05
398	9.10E-06	465	2.36E-04	532	5.02E-04	599	9.90E-04	666	2.94E-04	733	3.98E-05
399	1.04E-05	466	2.22E-04	533	5.10E-04	600	9.87E-04	667	2.86E-04	734	3.86E-05
400	9.70E-06	467	2.09E-04	534	5.16E-04	601	9.85E-04	668	2.77E-04	735	3.76E-05
401	1.12E-05	468	1.96E-04	535	5.24E-04	602	9.80E-04	669	2.70E-04	736	3.63E-05
402	1.16E-05	469	1.84E-04	536	5.29E-04	603	9.75E-04	670	2.61E-04	737	3.51E-05
403	1.35E-05	470	1.73E-04	537	5.36E-04	604	9.69E-04	671	2.55E-04	738	3.38E-05
404	1.52E-05	471	1.55E-04	538	5.43E-04	605	9.62E-04	672	2.48E-04	739	3.31E-05
405	1.73E-05	472	1.46E-04	539	5.48E-04	606	9.58E-04	673	2.40E-04	740	3.20E-05
406	1.90E-05	473	1.39E-04	540	5.57E-04	607	9.52E-04	674	2.34E-04	741	3.07E-05
407	1.88E-05	474	1.31E-04	541	5.65E-04	608	9.45E-04	675	2.27E-04	742	3.02E-05
408	2.33E-05	475	1.27E-04	542	5.72E-04	609	9.37E-04	676	2.20E-04	743	2.87E-05
409	2.62E-05	476	1.22E-04	543	5.79E-04	610	9.33E-04	677	2.15E-04	744	2.80E-05
410	2.95E-05	477	1.19E-04	544	5.88E-04	611	9.22E-04	678	2.08E-04	745	2.72E-05
411	3.20E-05	478	1.17E-04	545	5.96E-04	612	9.13E-04	679	2.03E-04	746	2.65E-05
412	3.59E-05	479	1.15E-04	546	6.03E-04	613	9.03E-04	680	1.96E-04	747	2.56E-05
413	4.08E-05	480	1.14E-04	547	6.13E-04	614	8.93E-04	681	1.92E-04	748	2.47E-05
414	4.56E-05	481	1.13E-04	548	6.22E-04	615	8.81E-04	682	1.86E-04	749	2.38E-05
415	5.17E-05	482	1.12E-04	549	6.30E-04	616	8.73E-04	683	1.81E-04	750	2.33E-05
416	5.71E-05	483	1.13E-04	550	6.39E-04	617	8.62E-04	684	1.76E-04	751	2.26E-05
417	6.36E-05	484	1.15E-04	551	6.49E-04	618	8.49E-04	685	1.70E-04	752	2.20E-05
418	7.05E-05	485	1.16E-04	552	6.58E-04	619	8.38E-04	686	1.65E-04	753	2.12E-05
419	7.64E-05	486	1.18E-04	553	6.70E-04	620	8.27E-04	687	1.61E-04	754	2.07E-05
420	8.53E-05	487	1.22E-04	554	6.79E-04	621	8.15E-04	688	1.57E-04	755	2.03E-05
421	9.45E-05	488	1.25E-04	555	6.90E-04	622	8.00E-04	689	1.52E-04	756	1.96E-05
422	1.04E-04	489	1.29E-04	556	6.98E-04	623	7.88E-04	690	1.47E-04	757	1.90E-05
423	1.13E-04	490	1.33E-04	557	7.10E-04	624	7.75E-04	691	1.44E-04	758	1.82E-05
424	1.23E-04	491	1.38E-04	558	7.19E-04	625	7.64E-04	692	1.40E-04	759	1.77E-05
425	1.35E-04	492	1.44E-04	559	7.30E-04	626	7.51E-04	693	1.35E-04	760	1.70E-05
426	1.45E-04	493	1.52E-04	560	7.40E-04	627	7.40E-04	694	1.32E-04	761	1.67E-05
427	1.60E-04	494	1.58E-04	561	7.52E-04	628	7.27E-04	695	1.27E-04	762	1.59E-05
428	1.72E-04	495	1.67E-04	562	7.64E-04	629	7.15E-04	696	1.25E-04	763	1.55E-05
429	1.85E-04	496	1.75E-04	563	7.75E-04	630	7.02E-04	697	1.21E-04	764	1.53E-05
430	2.01E-04	497	1.83E-04	564	7.87E-04	631	6.90E-04	698	1.17E-04	765	1.48E-05
431	2.15E-04	498	1.92E-04	565	7.98E-04	632	6.76E-04	699	1.13E-04	766	1.44E-05
432	2.32E-04	499	2.02E-04	566	8.10E-04	633	6.63E-04	700	1.10E-04	767	1.38E-05
433	2.46E-04	500	2.12E-04	567	8.20E-04	634	6.49E-04	701	1.08E-04	768	1.34E-05
434	2.64E-04	501	2.22E-04	568	8.32E-04	635	6.36E-04	702	1.04E-04	769	1.30E-05
435	2.83E-04	502	2.32E-04	569	8.42E-04	636	6.23E-04	703	1.00E-04	770	1.27E-05
436	3.03E-04	503	2.43E-04	570	8.54E-04	637	6.11E-04	704	9.73E-05	771	1.21E-05
437	3.25E-04	504	2.53E-04	571	8.63E-04	638	5.99E-04	705	9.41E-05	772	1.17E-05
438	3.51E-04	505	2.63E-04	572	8.73E-04	639	5.87E-04	706	9.22E-05	773	1.12E-05
439	3.74E-04	506	2.75E-04	573	8.83E-04	640	5.75E-04	707	8.91E-05	774	1.12E-05
440	4.03E-04	507	2.86E-04	574	8.93E-04	641	5.55E-04	708	8.72E-05	775	1.10E-05
441	4.31E-04	508	2.97E-04	575	9.02E-04	642	5.43E-04	709	8.40E-05	776	1.05E-05
442	4.63E-04	509	3.09E-04	576	9.11E-04	643	5.30E-04	710	8.12E-05	777	1.01E-05
443	4.92E-04	510	3.19E-04	577	9.19E-04	644	5.17E-04	711	7.88E-05	778	9.90E-06
444	5.25E-04	511	3.30E-04	578	9.29E-04	645	5.06E-04	712	7.66E-05	779	9.70E-06
445	5.49E-04	512	3.42E-04	579	9.38E-04	646	4.94E-04	713	7.46E-05	780	9.80E-06
446	5.73E-04	513	3.50E-04	580	9.44E-04	647	4.83E-04	714	7.16E-05	N/A	N/A

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

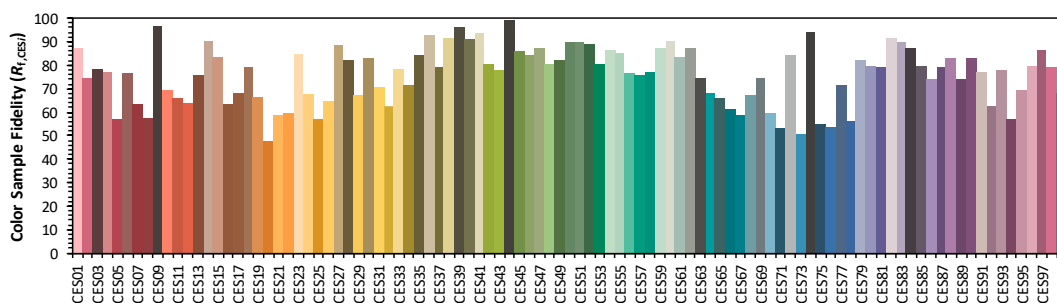
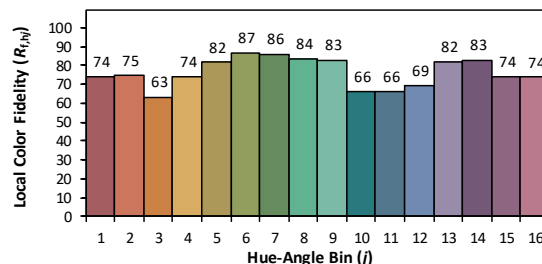
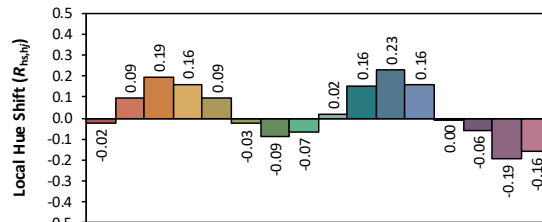
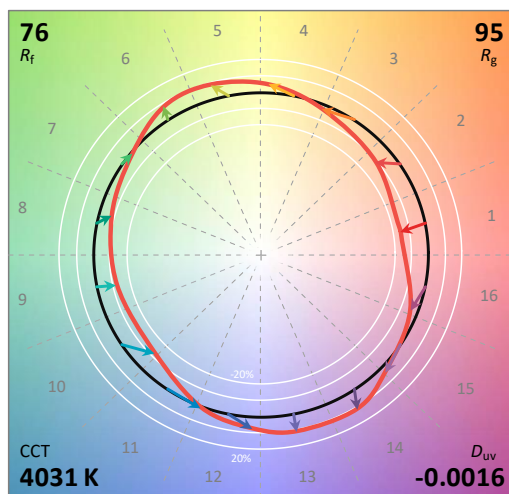
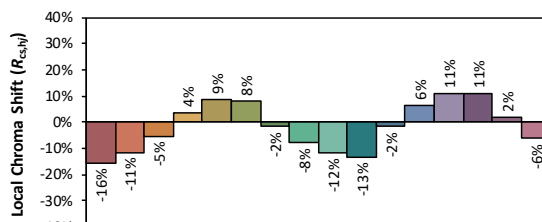
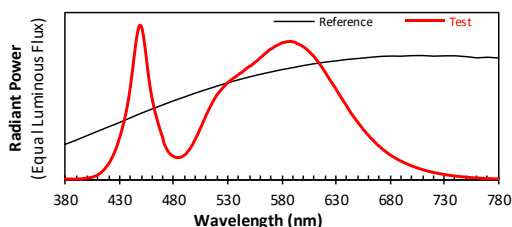
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: Shenzhen XinShengYang
Opto-electronics
Technology Co., Ltd

Date: 2024/4/30

Model: XWPE125WSCSALV



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

x 0.3780
 y 0.3717
 u' 0.2255
 v' 0.4990

CIE 13.3-1995
(CRI)
 R_a 75
 R_g -19

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	1.02E-05	447	9.64E-04	514	4.74E-04	581	8.84E-04	648	3.94E-04	715	5.87E-05
381	8.00E-06	448	9.90E-04	515	4.88E-04	582	8.86E-04	649	3.84E-04	716	5.66E-05
382	7.70E-06	449	9.96E-04	516	5.02E-04	583	8.86E-04	650	3.75E-04	717	5.55E-05
383	7.10E-06	450	9.88E-04	517	5.14E-04	584	8.89E-04	651	3.66E-04	718	5.40E-05
384	7.80E-06	451	9.65E-04	518	5.26E-04	585	8.91E-04	652	3.57E-04	719	5.18E-05
385	8.50E-06	452	9.25E-04	519	5.37E-04	586	8.90E-04	653	3.48E-04	720	5.07E-05
386	7.20E-06	453	8.75E-04	520	5.48E-04	587	8.92E-04	654	3.39E-04	721	4.90E-05
387	7.00E-06	454	8.24E-04	521	5.57E-04	588	8.92E-04	655	3.29E-04	722	4.75E-05
388	6.70E-06	455	7.65E-04	522	5.67E-04	589	8.91E-04	656	3.21E-04	723	4.60E-05
389	6.70E-06	456	7.08E-04	523	5.74E-04	590	8.89E-04	657	3.14E-04	724	4.49E-05
390	8.60E-06	457	6.54E-04	524	5.83E-04	591	8.88E-04	658	3.05E-04	725	4.33E-05
391	7.80E-06	458	6.07E-04	525	5.90E-04	592	8.87E-04	659	2.97E-04	726	4.21E-05
392	8.00E-06	459	5.62E-04	526	5.98E-04	593	8.84E-04	660	2.89E-04	727	4.09E-05
393	8.50E-06	460	5.24E-04	527	6.07E-04	594	8.78E-04	661	2.82E-04	728	3.96E-05
394	9.10E-06	461	4.91E-04	528	6.13E-04	595	8.76E-04	662	2.73E-04	729	3.82E-05
395	8.60E-06	462	4.59E-04	529	6.21E-04	596	8.74E-04	663	2.67E-04	730	3.72E-05
396	1.02E-05	463	4.30E-04	530	6.26E-04	597	8.69E-04	664	2.60E-04	731	3.63E-05
397	1.13E-05	464	4.06E-04	531	6.33E-04	598	8.66E-04	665	2.53E-04	732	3.49E-05
398	1.16E-05	465	3.81E-04	532	6.38E-04	599	8.61E-04	666	2.45E-04	733	3.38E-05
399	1.18E-05	466	3.56E-04	533	6.44E-04	600	8.58E-04	667	2.38E-04	734	3.26E-05
400	1.28E-05	467	3.32E-04	534	6.49E-04	601	8.51E-04	668	2.31E-04	735	3.16E-05
401	1.44E-05	468	3.11E-04	535	6.55E-04	602	8.47E-04	669	2.25E-04	736	3.07E-05
402	1.64E-05	469	2.90E-04	536	6.60E-04	603	8.41E-04	670	2.19E-04	737	2.98E-05
403	1.76E-05	470	2.69E-04	537	6.63E-04	604	8.35E-04	671	2.12E-04	738	2.91E-05
404	1.84E-05	471	2.38E-04	538	6.69E-04	605	8.28E-04	672	2.07E-04	739	2.83E-05
405	1.98E-05	472	2.23E-04	539	6.74E-04	606	8.22E-04	673	2.01E-04	740	2.73E-05
406	2.31E-05	473	2.07E-04	540	6.79E-04	607	8.14E-04	674	1.95E-04	741	2.64E-05
407	2.52E-05	474	1.95E-04	541	6.85E-04	608	8.07E-04	675	1.90E-04	742	2.55E-05
408	2.84E-05	475	1.83E-04	542	6.89E-04	609	8.01E-04	676	1.85E-04	743	2.50E-05
409	3.15E-05	476	1.75E-04	543	6.94E-04	610	7.93E-04	677	1.79E-04	744	2.36E-05
410	3.57E-05	477	1.67E-04	544	6.98E-04	611	7.85E-04	678	1.75E-04	745	2.34E-05
411	4.03E-05	478	1.61E-04	545	7.06E-04	612	7.76E-04	679	1.69E-04	746	2.25E-05
412	4.48E-05	479	1.57E-04	546	7.11E-04	613	7.66E-04	680	1.64E-04	747	2.19E-05
413	5.09E-05	480	1.52E-04	547	7.15E-04	614	7.58E-04	681	1.59E-04	748	2.13E-05
414	5.65E-05	481	1.49E-04	548	7.22E-04	615	7.47E-04	682	1.55E-04	749	2.06E-05
415	6.45E-05	482	1.47E-04	549	7.27E-04	616	7.37E-04	683	1.51E-04	750	1.97E-05
416	7.12E-05	483	1.45E-04	550	7.33E-04	617	7.28E-04	684	1.47E-04	751	1.93E-05
417	8.06E-05	484	1.46E-04	551	7.33E-04	618	7.16E-04	685	1.43E-04	752	1.89E-05
418	8.94E-05	485	1.46E-04	552	7.39E-04	619	7.06E-04	686	1.39E-04	753	1.83E-05
419	9.78E-05	486	1.47E-04	553	7.46E-04	620	6.95E-04	687	1.35E-04	754	1.76E-05
420	1.08E-04	487	1.49E-04	554	7.50E-04	621	6.85E-04	688	1.31E-04	755	1.73E-05
421	1.19E-04	488	1.53E-04	555	7.57E-04	622	6.73E-04	689	1.27E-04	756	1.66E-05
422	1.33E-04	489	1.58E-04	556	7.62E-04	623	6.63E-04	690	1.23E-04	757	1.59E-05
423	1.46E-04	490	1.62E-04	557	7.67E-04	624	6.50E-04	691	1.21E-04	758	1.57E-05
424	1.60E-04	491	1.67E-04	558	7.74E-04	625	6.39E-04	692	1.16E-04	759	1.52E-05
425	1.77E-04	492	1.74E-04	559	7.80E-04	626	6.30E-04	693	1.14E-04	760	1.46E-05
426	1.93E-04	493	1.84E-04	560	7.85E-04	627	6.19E-04	694	1.10E-04	761	1.45E-05
427	2.12E-04	494	1.92E-04	561	7.92E-04	628	6.09E-04	695	1.07E-04	762	1.40E-05
428	2.31E-04	495	2.03E-04	562	7.97E-04	629	5.98E-04	696	1.04E-04	763	1.35E-05
429	2.53E-04	496	2.13E-04	563	8.05E-04	630	5.87E-04	697	1.01E-04	764	1.30E-05
430	2.76E-04	497	2.25E-04	564	8.11E-04	631	5.76E-04	698	9.80E-05	765	1.27E-05
431	2.97E-04	498	2.37E-04	565	8.16E-04	632	5.64E-04	699	9.54E-05	766	1.22E-05
432	3.23E-04	499	2.51E-04	566	8.23E-04	633	5.53E-04	700	9.25E-05	767	1.19E-05
433	3.50E-04	500	2.64E-04	567	8.27E-04	634	5.42E-04	701	8.99E-05	768	1.16E-05
434	3.75E-04	501	2.78E-04	568	8.34E-04	635	5.30E-04	702	8.71E-05	769	1.12E-05
435	4.08E-04	502	2.92E-04	569	8.41E-04	636	5.20E-04	703	8.50E-05	770	1.10E-05
436	4.39E-04	503	3.08E-04	570	8.44E-04	637	5.09E-04	704	8.23E-05	771	1.05E-05
437	4.75E-04	504	3.24E-04	571	8.47E-04	638	4.98E-04	705	7.97E-05	772	1.05E-05
438	5.16E-04	505	3.39E-04	572	8.51E-04	639	4.89E-04	706	7.73E-05	773	9.70E-06
439	5.58E-04	506	3.54E-04	573	8.57E-04	640	4.78E-04	707	7.52E-05	774	9.60E-06
440	6.07E-04	507	3.70E-04	574	8.62E-04	641	4.65E-04	708	7.24E-05	775	9.50E-06
441	6.59E-04	508	3.87E-04	575	8.64E-04	642	4.54E-04	709	7.05E-05	776	9.10E-06
442	7.13E-04	509	4.01E-04	576	8.67E-04	643	4.43E-04	710	6.87E-05	777	8.80E-06
443	7.71E-04	510	4.19E-04	577	8.72E-04	644	4.31E-04	711	6.68E-05	778	8.70E-06
444	8.29E-04	511	4.31E-04	578	8.75E-04	645	4.23E-04	712	6.43E-05	779	8.60E-06
445	8.82E-04	512	4.48E-04	579	8.78E-04	646	4.12E-04	713	6.27E-05	780	8.60E-06
446	9.29E-04	513	4.61E-04	580	8.82E-04	647	4.03E-04	714	6.07E-05	N/A	N/A

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

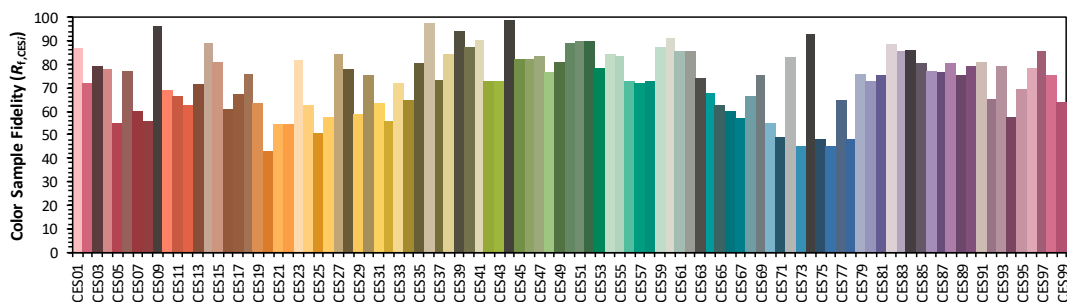
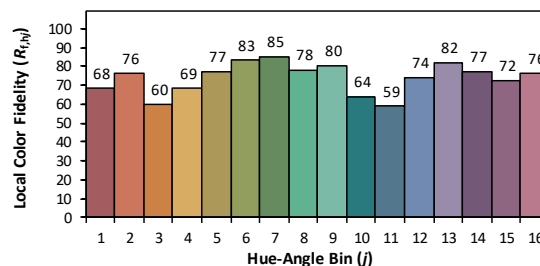
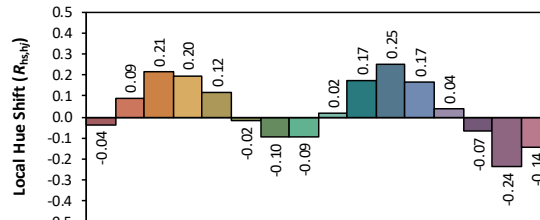
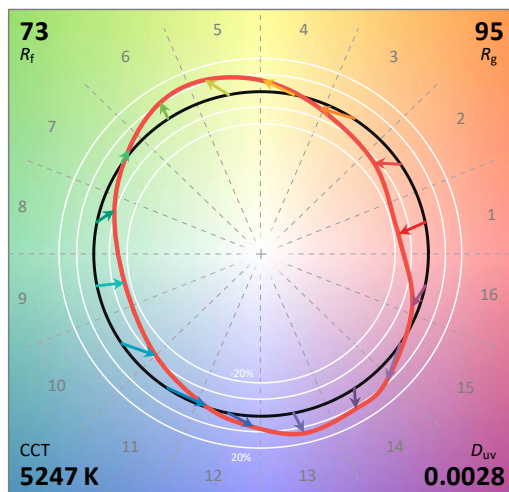
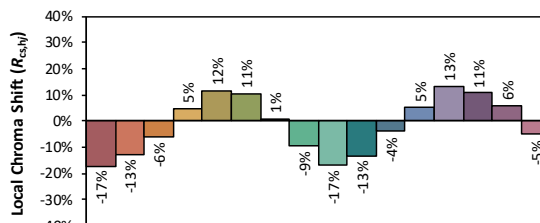
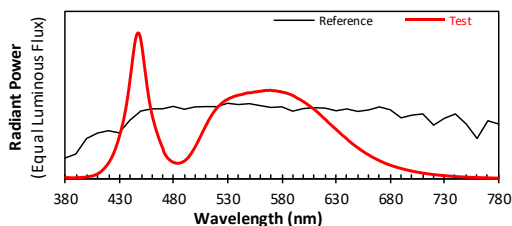
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: Shenzhen XinShengYang
Opto-electronics
Technology Co., Ltd

Date: 2024/4/30

Model: XWPE63WSCSALV



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

x 0.3388
 y 0.3520
 u' 0.2070
 v' 0.4839

CIE 13.3-1995
(CRI)

R_a 72
 R_g -28

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	8.80E-06	447	9.98E-04	514	4.22E-04	581	5.92E-04	648	2.25E-04	715	3.41E-05
381	8.00E-06	448	9.92E-04	515	4.34E-04	582	5.91E-04	649	2.19E-04	716	3.32E-05
382	8.90E-06	449	9.71E-04	516	4.46E-04	583	5.89E-04	650	2.15E-04	717	3.23E-05
383	6.90E-06	450	9.29E-04	517	4.56E-04	584	5.87E-04	651	2.09E-04	718	3.14E-05
384	7.70E-06	451	8.83E-04	518	4.67E-04	585	5.85E-04	652	2.04E-04	719	3.05E-05
385	6.90E-06	452	8.25E-04	519	4.75E-04	586	5.82E-04	653	1.98E-04	720	2.94E-05
386	7.00E-06	453	7.67E-04	520	4.85E-04	587	5.80E-04	654	1.93E-04	721	2.84E-05
387	6.80E-06	454	7.10E-04	521	4.93E-04	588	5.77E-04	655	1.88E-04	722	2.78E-05
388	6.90E-06	455	6.51E-04	522	5.00E-04	589	5.74E-04	656	1.84E-04	723	2.69E-05
389	7.50E-06	456	6.01E-04	523	5.07E-04	590	5.70E-04	657	1.78E-04	724	2.62E-05
390	7.70E-06	457	5.51E-04	524	5.13E-04	591	5.67E-04	658	1.73E-04	725	2.54E-05
391	7.60E-06	458	5.09E-04	525	5.20E-04	592	5.62E-04	659	1.70E-04	726	2.47E-05
392	8.40E-06	459	4.70E-04	526	5.25E-04	593	5.58E-04	660	1.65E-04	727	2.38E-05
393	8.30E-06	460	4.36E-04	527	5.32E-04	594	5.52E-04	661	1.61E-04	728	2.33E-05
394	8.90E-06	461	4.06E-04	528	5.36E-04	595	5.49E-04	662	1.56E-04	729	2.24E-05
395	9.30E-06	462	3.78E-04	529	5.41E-04	596	5.46E-04	663	1.51E-04	730	2.17E-05
396	1.04E-05	463	3.51E-04	530	5.44E-04	597	5.41E-04	664	1.48E-04	731	2.11E-05
397	1.09E-05	464	3.28E-04	531	5.49E-04	598	5.37E-04	665	1.44E-04	732	2.04E-05
398	1.15E-05	465	3.04E-04	532	5.52E-04	599	5.32E-04	666	1.40E-04	733	1.98E-05
399	1.23E-05	466	2.82E-04	533	5.55E-04	600	5.28E-04	667	1.37E-04	734	1.93E-05
400	1.33E-05	467	2.61E-04	534	5.58E-04	601	5.23E-04	668	1.32E-04	735	1.86E-05
401	1.48E-05	468	2.43E-04	535	5.61E-04	602	5.18E-04	669	1.29E-04	736	1.81E-05
402	1.60E-05	469	2.24E-04	536	5.64E-04	603	5.13E-04	670	1.25E-04	737	1.74E-05
403	1.71E-05	470	2.07E-04	537	5.66E-04	604	5.07E-04	671	1.21E-04	738	1.71E-05
404	1.92E-05	471	1.81E-04	538	5.69E-04	605	5.01E-04	672	1.18E-04	739	1.62E-05
405	2.02E-05	472	1.68E-04	539	5.70E-04	606	4.97E-04	673	1.15E-04	740	1.61E-05
406	2.28E-05	473	1.56E-04	540	5.73E-04	607	4.91E-04	674	1.12E-04	741	1.56E-05
407	2.53E-05	474	1.46E-04	541	5.74E-04	608	4.85E-04	675	1.08E-04	742	1.50E-05
408	2.87E-05	475	1.37E-04	542	5.75E-04	609	4.81E-04	676	1.05E-04	743	1.47E-05
409	3.15E-05	476	1.31E-04	543	5.77E-04	610	4.75E-04	677	1.02E-04	744	1.41E-05
410	3.65E-05	477	1.25E-04	544	5.79E-04	611	4.70E-04	678	9.94E-05	745	1.38E-05
411	3.98E-05	478	1.20E-04	545	5.82E-04	612	4.62E-04	679	9.68E-05	746	1.33E-05
412	4.54E-05	479	1.15E-04	546	5.84E-04	613	4.56E-04	680	9.41E-05	747	1.29E-05
413	5.12E-05	480	1.12E-04	547	5.86E-04	614	4.49E-04	681	9.15E-05	748	1.25E-05
414	5.78E-05	481	1.10E-04	548	5.88E-04	615	4.42E-04	682	8.90E-05	749	1.22E-05
415	6.56E-05	482	1.07E-04	549	5.89E-04	616	4.36E-04	683	8.65E-05	750	1.17E-05
416	7.29E-05	483	1.07E-04	550	5.89E-04	617	4.28E-04	684	8.43E-05	751	1.16E-05
417	8.17E-05	484	1.06E-04	551	5.88E-04	618	4.21E-04	685	8.22E-05	752	1.12E-05
418	9.13E-05	485	1.07E-04	552	5.89E-04	619	4.15E-04	686	7.97E-05	753	1.10E-05
419	1.01E-04	486	1.08E-04	553	5.92E-04	620	4.08E-04	687	7.73E-05	754	1.04E-05
420	1.12E-04	487	1.11E-04	554	5.93E-04	621	4.01E-04	688	7.54E-05	755	1.01E-05
421	1.24E-04	488	1.14E-04	555	5.95E-04	622	3.94E-04	689	7.35E-05	756	1.00E-05
422	1.37E-04	489	1.18E-04	556	5.94E-04	623	3.86E-04	690	7.14E-05	757	9.50E-06
423	1.52E-04	490	1.22E-04	557	5.96E-04	624	3.80E-04	691	6.94E-05	758	9.40E-06
424	1.68E-04	491	1.28E-04	558	5.96E-04	625	3.72E-04	692	6.76E-05	759	9.10E-06
425	1.85E-04	492	1.35E-04	559	5.98E-04	626	3.66E-04	693	6.53E-05	760	8.90E-06
426	2.03E-04	493	1.43E-04	560	5.99E-04	627	3.59E-04	694	6.39E-05	761	8.50E-06
427	2.26E-04	494	1.51E-04	561	6.00E-04	628	3.52E-04	695	6.15E-05	762	8.10E-06
428	2.47E-04	495	1.61E-04	562	6.01E-04	629	3.46E-04	696	6.02E-05	763	8.10E-06
429	2.71E-04	496	1.72E-04	563	6.02E-04	630	3.39E-04	697	5.83E-05	764	7.70E-06
430	2.97E-04	497	1.83E-04	564	6.04E-04	631	3.33E-04	698	5.69E-05	765	7.60E-06
431	3.23E-04	498	1.96E-04	565	6.04E-04	632	3.26E-04	699	5.50E-05	766	7.20E-06
432	3.54E-04	499	2.07E-04	566	6.05E-04	633	3.19E-04	700	5.34E-05	767	7.20E-06
433	3.83E-04	500	2.21E-04	567	6.04E-04	634	3.12E-04	701	5.17E-05	768	7.00E-06
434	4.17E-04	501	2.34E-04	568	6.05E-04	635	3.05E-04	702	5.03E-05	769	6.70E-06
435	4.54E-04	502	2.48E-04	569	6.06E-04	636	2.99E-04	703	4.90E-05	770	6.60E-06
436	4.95E-04	503	2.63E-04	570	6.05E-04	637	2.92E-04	704	4.77E-05	771	6.40E-06
437	5.41E-04	504	2.79E-04	571	6.03E-04	638	2.87E-04	705	4.62E-05	772	6.30E-06
438	5.90E-04	505	2.93E-04	572	6.03E-04	639	2.81E-04	706	4.51E-05	773	5.90E-06
439	6.45E-04	506	3.09E-04	573	6.03E-04	640	2.74E-04	707	4.33E-05	774	5.90E-06
440	7.02E-04	507	3.23E-04	574	6.03E-04	641	2.66E-04	708	4.22E-05	775	5.70E-06
441	7.59E-04	508	3.39E-04	575	6.01E-04	642	2.59E-04	709	4.10E-05	776	5.50E-06
442	8.21E-04	509	3.53E-04	576	5.99E-04	643	2.54E-04	710	3.97E-05	777	5.20E-06
443	8.76E-04	510	3.68E-04	577	5.98E-04	644	2.48E-04	711	3.86E-05	778	5.10E-06
444	9.28E-04	511	3.81E-04	578	5.98E-04	645	2.42E-04	712	3.75E-05	779	5.10E-06
445	9.65E-04	512	3.96E-04	579	5.96E-04	646	2.36E-04	713	3.63E-05	780	5.10E-06
446	9.89E-04	513	4.09E-04	580	5.94E-04	647	2.31E-04	714	3.52E-05	N/A	N/A

Goniophotometer Test Results (CCT Setting=3000K):

Test Condition:

Test Ambient (°C)	Test Humidity (%)	Orientation	Stabilization Time (minute)	Test Time (minute)
25.1	41.6	Face Down	90	25

Electrical Data:

Voltage (V)	Frequency (Hz)	Current (A)	Wattage (W)	Power Factor
120.0	60	1.0513	125.94	0.9983

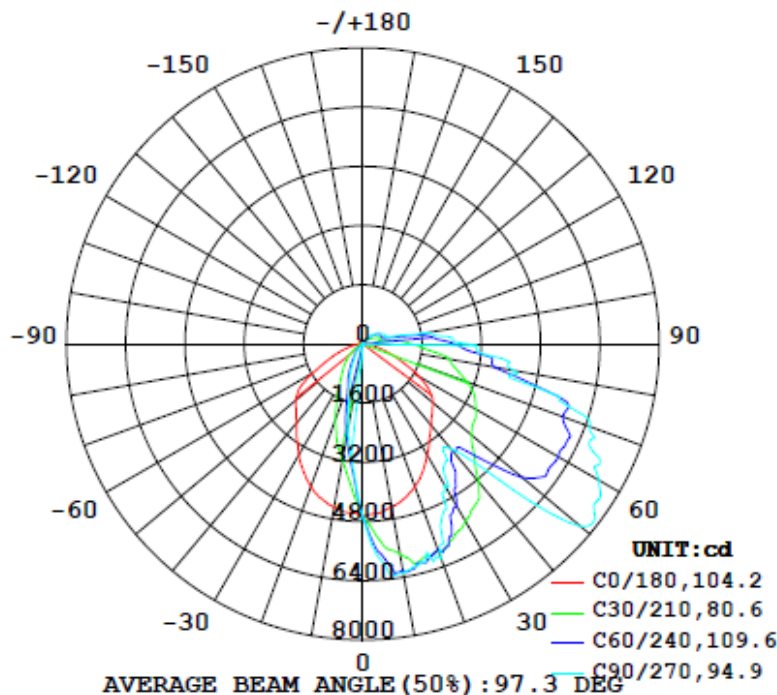
Goniophotometer Data:

Parameter	Results
Total Luminous (lm)	16289.2
Luminous Efficacy (lm/W)	129.34
#Luminous Efficacy (0-90°) (lm/W)	116.68
#Zonal Lumens Distribution (80-90°)	8.6%
Beam Angle (°)	97.3
BUG	B2-U4-G5

#Note: Zonal Luminous Efficacy (0-90°) and Zonal Lumens Distribution (80-90°) are only calculated with Luminous on 0-90° and total wattage.

Luminous Intensity Distribution Diagram:

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

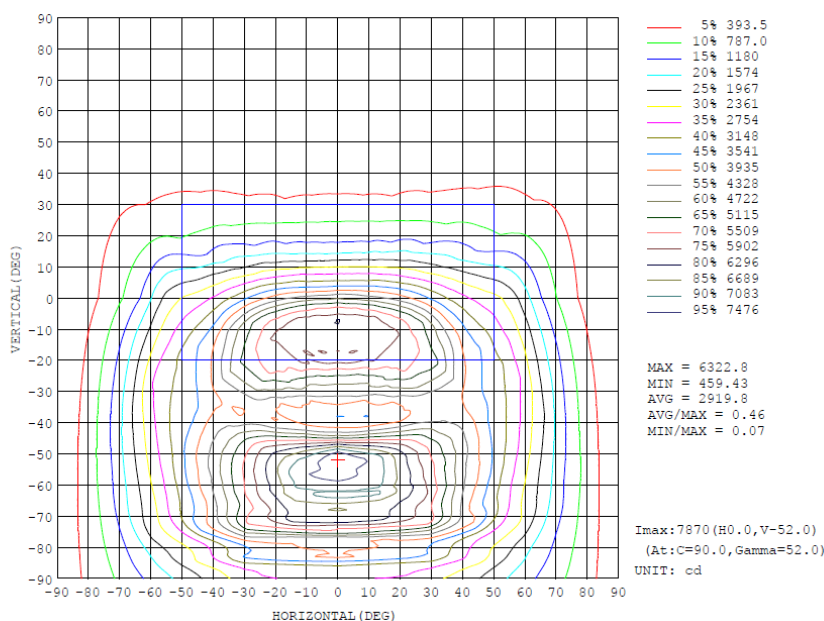


Zonal Flux Diagram:

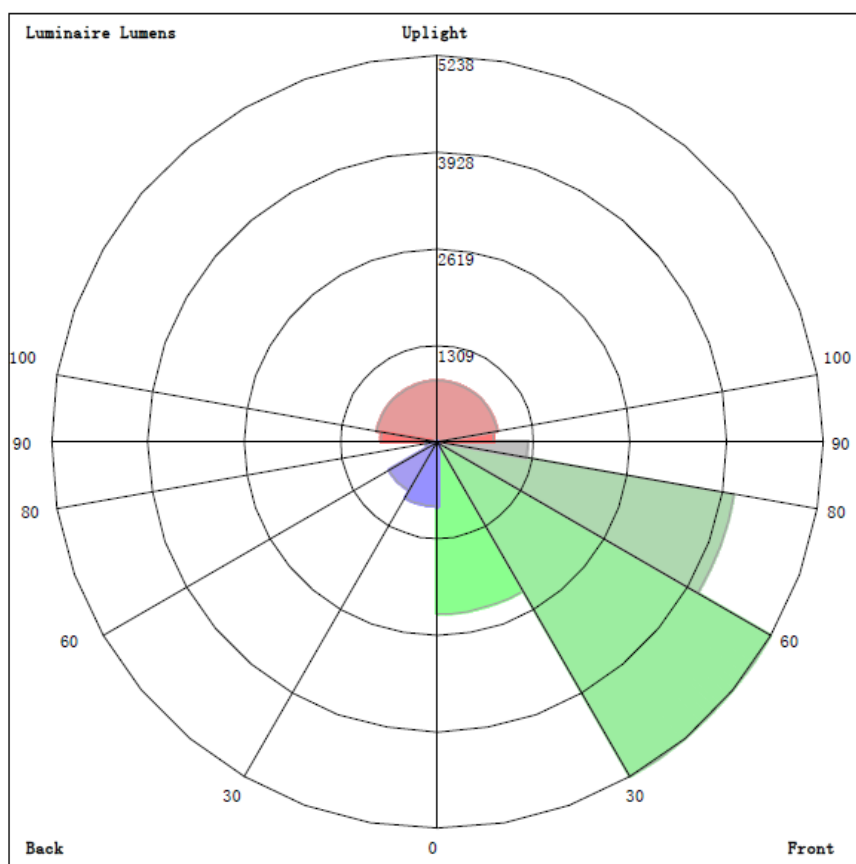
ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total	lum, lamp
10	4463	6246	6281	6216	4487	2848	2348	2880	0- 10	433.9	433.9	2.66,2.66
20	4097	6107	6179	6089	4104	1513	1042	1598	10- 20	1164	1597	9.81,9.81
30	3462	5596	4401	5641	3455	877.6	465.7	908.4	20- 30	1602	3199	19.6,19.6
40	2868	4376	3700	4559	2790	469.6	256.9	528.5	30- 40	1709	4908	30.1,30.1
50	2478	4387	7655	4155	2368	212.5	69.15	219.3	40- 50	1900	6807	41.8,41.8
60	1734	4731	7369	4676	1539	73.52	1.942	89.49	50- 60	2384	9191	56.4,56.4
70	799.6	4104	6501	4126	725.2	18.37	3.131	24.11	60- 70	2328	11519	70.7,70.7
80	275.5	3054	4156	3207	279.2	11.94	4.629	15.73	70- 80	1915	13435	82.5,82.5
90	117.7	1989	2838	1906	123.5	9.517	6.029	12.54	80- 90	1260	14695	90.2,90.2
100	97.65	882.4	1768	803.1	109.5	8.677	9.442	11.19	90-100	765.5	15460	94.9,94.9
110	99.66	489.2	652.3	488.1	98.23	7.313	10.06	8.899	100-110	309.3	15769	96.8,96.8
120	59.02	486.1	528.3	461.6	55.66	7.983	9.503	8.402	110-120	220.5	15990	98.2,98.2
130	25.92	318.8	417.7	301.8	24.40	5.904	8.608	6.162	120-130	152.0	16142	99.1,99.1
140	13.77	191.0	249.2	184.1	5.506	6.646	7.514	6.200	130-140	83.44	16225	99.6,99.6
150	4.992	113.0	144.9	112.4	6.555	6.570	6.978	6.542	140-150	41.70	16267	99.9,99.9
160	5.123	4.769	91.48	24.76	6.984	4.726	6.577	5.957	150-160	16.94	16284	100,100
170	4.677	23.95	37.64	14.90	5.535	4.789	3.880	4.443	160-170	4.560	16288	100,100
180	5.291	6.289	5.222	4.008	5.055	5.638	5.409	4.586	170-180	0.7895	16289	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Isocandela Diagram:



BUG Rating:



LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2330.1	N.A.	14.3
FM - Front-Medium (30-60)	5238.0	N.A.	32.2
FH - Front-High (60-80)	4092.9	N.A.	25.1
FVH - Front-Very High (80-90)	1231.1	N.A.	7.6
BL - Back-Low (0-30)	868.8	N.A.	5.3
BM - Back-Medium (30-60)	754.5	N.A.	4.6
BH - Back-High (60-80)	150.2	N.A.	0.9
BVH - Back-Very High (80-90)	28.9	N.A.	0.2
UL - Uplight-Low (90-100)	765.5	N.A.	4.7
UH - Uplight-High (100-180)	829.2	N.A.	5.1
Total	16289.2	N.A.	100.0
BUG Rating	B2-U4-G5		

Luminous Distribution Intensity Data:

C (DBG)		UNIT: cd																		
Y (DBG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	
0	4638	4648	4640	4659	4665	4674	4680	4681	4691	4696	4700	4684	4638	4648	4640	4659	4665	4674	4680	
5	4601	4941	5328	5611	5697	5829	5879	5792	5679	5589	5328	4943	4576	4208	3821	3550	3380	3271	3260	
10	4463	5259	5761	6246	6211	6229	6281	6255	6206	6216	5755	5236	4487	3728	3186	2848	2561	2391	2348	
15	4328	5370	6044	6175	6116	6110	6096	6114	6129	6168	6113	5370	4329	3383	2724	2152	1749	1503	1454	
20	4097	5410	5987	6107	5913	5965	6179	5966	5812	6089	6012	5381	4104	2991	2177	1513	1198	1076	1042	
25	3818	5283	5787	5853	5686	5156	5093	5215	5666	5756	5915	5323	3803	2622	1691	1115	916	788	749	
30	3462	4937	5527	5596	5066	4509	4401	4526	5079	5641	5575	4956	3455	2164	1252	878	642	492	466	
35	3137	4407	5298	5027	4372	3835	3881	3908	4373	5169	5235	4514	3110	1816	987	669	411	373	365	
40	2868	3985	4862	4376	3781	3603	3700	3694	3844	4559	4794	3968	2790	1467	807	470	294	279	257	
45	2650	3624	4256	3938	4255	4874	5176	4887	4152	3950	4203	3632	2548	1092	634	315	235	159	138	
50	2478	3419	3826	4387	5609	6817	7655	6636	5529	4155	3785	3360	2368	880	487	212	137	75.8	69.1	
55	2196	3159	3663	4787	6072	7339	7604	7311	6093	4652	3518	3098	2088	727	352	165	45.3	18.7	8.65	
60	1734	2893	3532	4731	6091	7218	7369	7178	6039	4676	3418	2933	1539	559	230	73.5	4.59	2.18	1.94	
65	1212	2504	3326	4441	6111	6798	6838	6794	5826	4442	3280	2571	1054	413	131	24.9	3.50	2.63	2.54	
70	800	2068	2985	4104	5752	6410	6501	6421	5436	4126	2965	2056	725	294	85.2	18.4	3.80	3.19	3.13	
75	487	1633	2613	3932	5446	5200	5500	5373	5478	3794	2594	1612	471	203	68.4	14.4	4.22	3.87	3.82	
80	276	1244	2392	3054	3593	3913	4156	3904	3753	3207	2296	1207	279	146	59.6	11.9	4.87	4.68	4.63	
85	156	963	1729	2579	3220	3239	3325	3350	3403	2416	1747	902	161	142	53.4	10.4	5.28	5.29	5.26	
90	118	703	1319	1989	2491	2733	2838	2836	2563	1906	1278	642	123	150	46.7	9.52	5.71	5.96	6.03	
95	113	498	1034	1593	1928	2217	2308	2280	1960	1508	982	445	119	147	38.1	8.04	5.53	6.29	6.83	
100	97.7	243	349	882	1256	1666	1768	1661	1160	803	406	211	109	124	31.6	8.68	7.06	8.72	9.44	
105	64.9	220	480	540	581	765	828	769	565	551	484	151	74.4	46.0	10.1	8.58	7.96	9.63	10.2	
110	99.7	182	525	489	564	635	652	660	590	488	469	119	98.2	11.4	22.0	7.31	8.40	9.72	10.1	
115	79.8	139	409	533	533	626	624	645	556	538	357	85.3	75.6	6.72	18.2	8.37	8.31	9.40	10.0	
120	59.0	111	322	486	542	560	528	570	557	462	282	65.3	55.7	4.92	14.4	7.98	8.24	8.97	9.50	
125	40.5	87.9	255	399	475	523	502	527	479	378	225	49.7	37.7	4.61	11.6	7.66	7.96	8.39	8.87	
130	25.9	49.1	204	319	380	430	418	429	383	302	179	17.8	24.4	5.04	9.89	5.90	7.55	8.17	8.61	
135	17.3	8.72	163	249	299	333	322	334	301	240	143	25.6	6.86	9.90	7.62	7.04	6.57	6.63	7.05	
140	13.8	44.8	128	191	235	255	249	256	236	184	113	44.7	5.51	10.7	7.29	6.65	7.31	7.31	7.51	
145	9.97	31.1	100	146	179	198	195	197	180	141	90.9	33.9	7.01	8.80	6.53	5.99	6.58	7.48	7.66	
150	4.99	27.2	22.0	113	132	143	145	145	135	112	16.2	24.4	6.56	5.31	6.66	6.57	6.09	6.68	6.98	
155	7.10	22.4	25.7	76.0	104	113	114	114	107	74.1	32.9	24.0	7.21	6.63	5.95	6.04	6.06	6.52	6.72	
160	5.12	13.2	32.4	4.77	53.2	89.6	91.5	90.7	54.4	24.8	37.0	15.8	6.98	6.26	4.48	4.73	5.55	6.30	6.58	
165	4.33	7.22	26.4	42.4	40.8	4.29	28.8	17.2	17.9	31.1	18.4	7.53	5.09	4.94	5.42	4.95	4.62	5.10	5.36	
170	4.68	4.87	12.0	23.9	33.8	39.9	37.6	30.4	21.0	14.9	10.3	5.64	5.54	5.52	5.04	4.79	3.98	3.72	3.88	
175	5.58	5.69	5.76	6.49	10.6	10.8	11.9	11.0	9.29	7.36	6.28	5.81	5.63	5.64	4.95	4.23	3.82	3.54	3.41	
180	5.29	6.54	6.42	6.29	6.12	5.75	5.22	4.97	4.32	4.01	4.30	3.78	5.05	5.05	5.08	5.64	5.75	5.60	5.41	

Table--2

UNIT: cd

C (DBG)	285	300	315	330	345														
Y (DBG)	0	4681	4691	4686	4700	4684													
5	3290	3409	3600	3901	4283														
10	2414	2591	2880	3239	3820														
15	1552	1836	2226	2756	3448														
20	1094	1217	1598	2248	3069														
25	805	927	1151	1807	2667														
30	513	678	908	1360	2285														
35	370	443	711	1021	1929														
40	281	306	529	830	1586														
45	174	241	346	662	1265														
50	75.5	169	219	510	964														
55	20.6	57.3	156	379	784														
60	2.10	6.77	89.5	271	612														
65	2.63	4.90	32.1	167	450														
70	3.22	4.80	24.1	102	318														
75	3.91	5.20	18.5	80.1	225														
80	4.75	5.68	15.7	68.9	167														
85	5.31	5.85	14.1	63.3	146														
90	5.98	6.16	12.5	58.3	152														
95	6.50	5.93	10.9	51.0	153														
100	8.40	7.43	11.2	39.6	129														
105	9.12	8.05	10.3	19.2	42.7														
110	9.42	8.09	8.90	30.6	80.4														
115	9.13	8.12	9.42	24.2	52.9														
120	8.75	7.80	8.40	18.6	34.1														
125	8.31	7.49	6.84	14.9	24.3														
130	7.92	6.47	6.16	11.2	16.8														
135	6.16	6.41	6.78	8.29	15.0														
140	7.01	6.70	6.20	7.92	11.4														
145	7.43	6.54	6.19	6.70	8.37														
150	6.50	5.82	6.54	7.04	5.43														
155	6.92	6.31	5.90	6.37	6.16														
160	6.70	6.52	5.96	5.22	5.80														
165	6.01	5.84	5.51	5.31	5.36														
170	3.95	4.18	4.44	5.08	5.23														
175	3.27	3.44	3.67	4.79	5.44														
180	5.03	4.70	4.59	4.45	4.16														

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	1.0513	125.94	0.9983	3.34
	277.0	60	0.4667	124.99	0.9668	7.52
	347.0	60	0.3857	124.33	0.9290	10.44
4000K	120.0	60	1.0418	124.80	0.9983	3.57
	277.0	60	0.4650	124.13	0.9638	7.81
	347.0	60	0.3841	123.75	0.9285	10.16
5000K	120.0	60	1.0443	125.12	0.9984	3.33
	277.0	60	0.4650	124.51	0.9666	7.61
	347.0	60	0.3848	124.07	0.9291	10.52

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	3098	125.94	16289.2	129.34	Set Switch 0% to 3000K
4000K	4031	124.80	17448.0	139.81	Set Switch 50% to 4000K
5000K	5238	125.12	16476.0	131.38	Set Switch 100% to 5000K
Lowest Efficacy	129.34 lm/W (@3000K)				
Maximum Power	125.94 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*******