



TEST REPORT

For

RENO LED LIGHTING INC

9133 Leslie St #120, Richmond Hill, ON L4B 4N1

Model Number:	RENO-LSN2-22W-DV-MCCT-MS	
Report Type:	Electrical, Photometric and ISTMT tests according to the following standards and show the compliance to DLC Program SSL Technical Requirements V5.1	
Standards:	ANSI/IES LM-79-19: Approved Method: Optical and Electrical Measurements of Solid-State Lighting Products ANSI C82.77-10-2014: Harmonic Emission Limits – Related Power Quality Requirements for Lighting ANSI/UL 1598-2008: Standard for Safety of Luminaires CIE 190:2010 Calculation and presentation of unified glare rating tables for indoor lighting luminaires IES TM-30-18*: IES Method for Evaluating Light Source Color Rendition	
Project Engineer:	Bay Wang	
Report Number:	RKSB230801005-10	
Sample Size:	One sample was received on 2023-08-01 and used for testing.	
Test Date:	2023-08-04 to 2023-08-11	
Report Date:	2023-08-12	
Reviewed By:	Seven Xia / EE Engineer	
Prepared By:	Bay Area Compliance Laboratories Corp. (Kunshan). No. 248 Chenghu Road, Kunshan, Jiangsu, People's Republic of China Tel: +86-0512-86175000 Fax: +86-0512-88934268	

1. Product Information and Description[#]

Product Primary Use:	Stairwell and Passageway Luminaires
Voltage and Frequency:	120-347VAC, 50/60Hz
LED Source Manufacturer:	Lumileds Holding B.V.
LED Source Model:	L128-xx80RA35000Q1
Driver Model:	SDC21CC050V42DN3
Auxiliary Ballast Model:	NA
Auxiliary Housing Model:	NA
White Tunable:	Yes
Field-Adjustable Light Output:	No

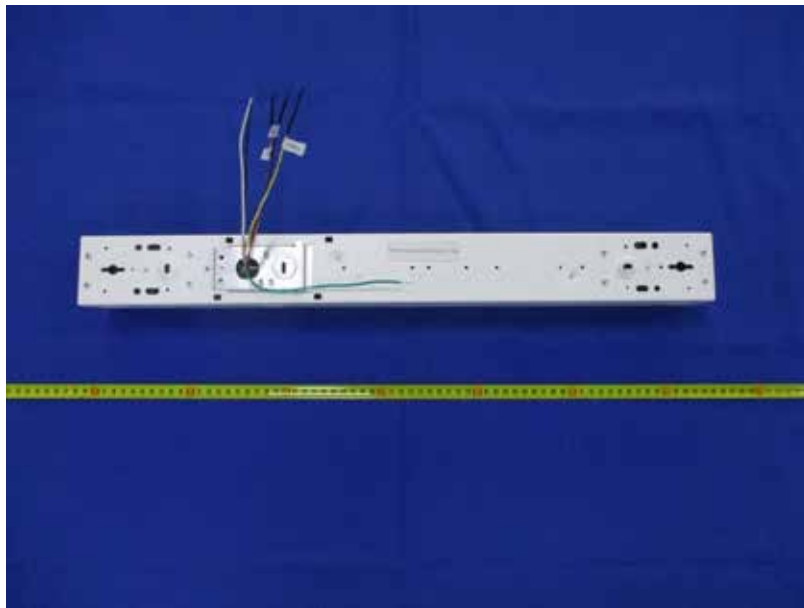
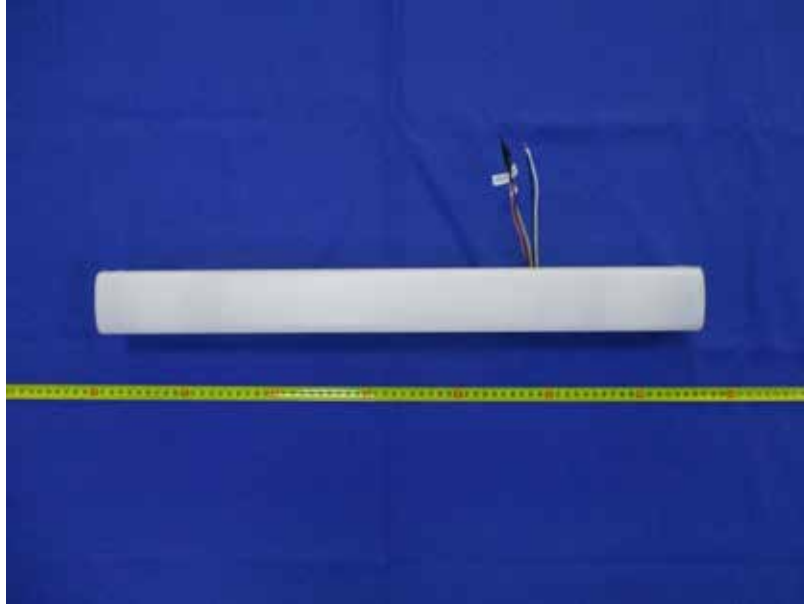
2. Product Rated Values[#]

Test Model	CCT(K)	Light Output (lm)	Power(W)	Luminous Efficacy (lm/W)
RENO-LSN2-22W-DV-MCCT-MS	3500	3527	22	160.3
	4000	3740	22	170
	5000	3542	22	161

3. Test List

Test Model	CCT(K)	Test Item			
		Goniophotometer Test	Integrating Sphere Test	THDi and PF Test	In-Situ Temperature Measurement Test
RENO-LSN2-22W-DV-MCCT-MS	3500	Yes	Yes	Yes	Yes
	4000	NA	Yes	Yes	NA
	5000	NA	Yes	Yes	NA

4. Product Photo



5. Test Result

Test Model: RENO-LSN2-22W-DV-MCCT-MS

Control Setting: 3500K

Integrating Sphere Test; Orientation: Downward; Test Voltage: 120V 60Hz;				
Test Item	Test Result	DLC Requirements	DLC Requirements(With tolerances only)	Conclusion
Light Output(lm)	3484.4	750~5000	675~5500	Pass
Power(W)	21.57	None.	None.	N/A
Total Efficacy(lm/W)	161.54	≥120	≥116.4	Pass
CCT(K)	3380	None ⁱ	None.	N/A
Duv	0.00308	None ⁱ	None.	N/A
IES R _r	82	70	69	Pass
IES R _g	98	89	88	
IES R _{cs,h1}	-11%	-18%~23%	-19%~24%	
R _a	81.2	≥70	≥69	
R ₉	22	/	/	

Note:

- i. White-tunable products are not required to meet the chromaticity requirements in DLC V5.1.

Goniophotometer Test; Orientation: Downward; Test Voltage: 120V 60Hz;				
Test Item	Test Result	DLC Requirements	DLC Requirements(With tolerances only)	Conclusion
Light Output(lm)	3486.3	750~5000	675~5500	Pass
Power(W)	21.58	None.	None.	N/A
Total Efficacy(lm/W)	161.6	≥120	≥116.4	Pass
Zonal Lumen Distribution(0-90°)	88.99%	0-90°≥85%	0-90°≥82%	Pass

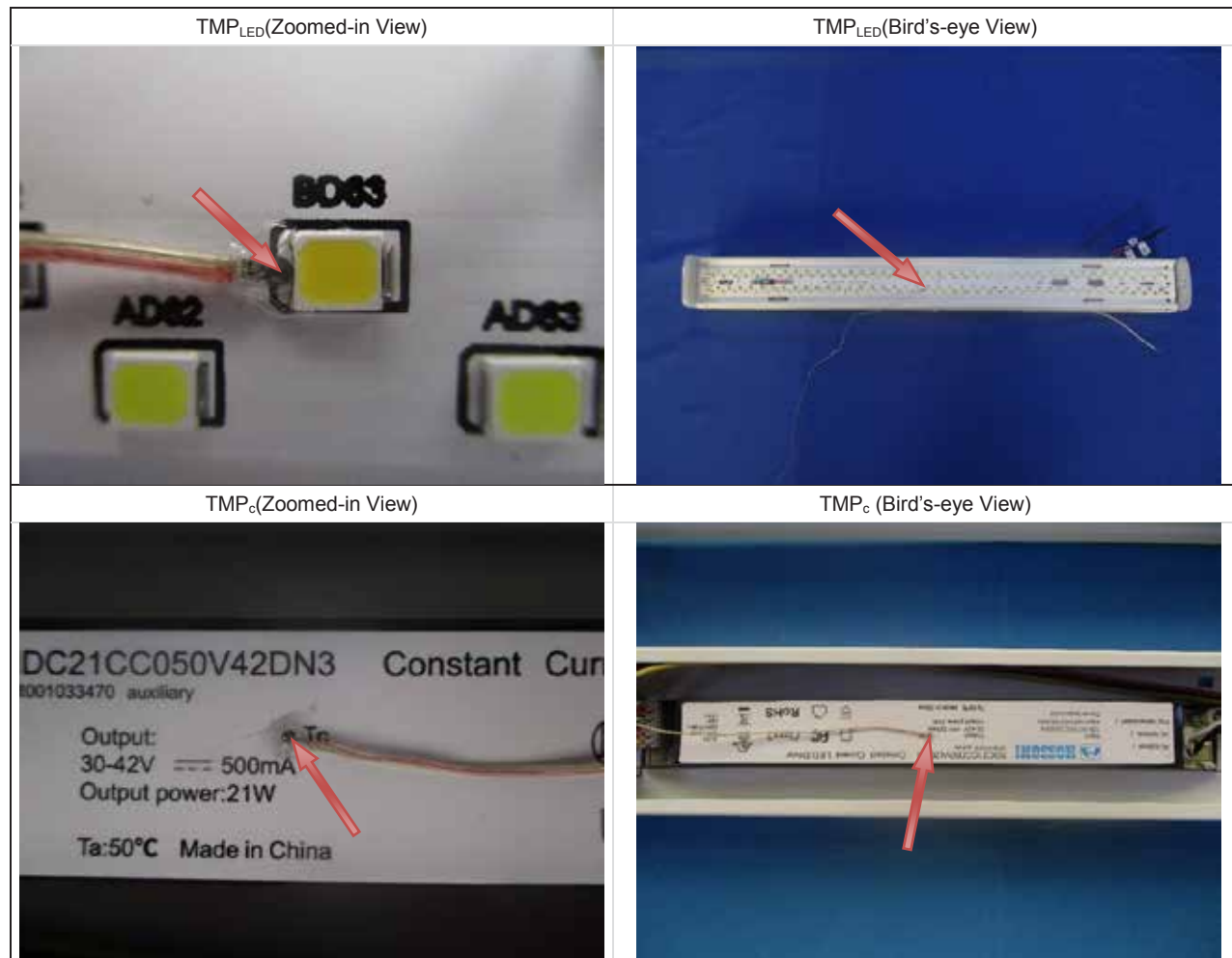
Integrating Sphere THDi、PF Test; Orientation: Downward;					
Test Voltage	Test Item	Test Result	DLC Requirements	DLC Requirements(With tolerances and/or allowances)	Conclusion
120	Power Factor	0.9959	≥0.9	≥0.87	Pass
120	THDi	2.76%	≤20%	≤25%	Pass
277	Power Factor	0.9555	≥0.9	≥0.87	Pass
277	THDi	8.52%	≤20%	≤25%	Pass
347	Power Factor	0.9164	≥0.9	≥0.87	Pass
347	THDi	15.57%	≤20%	≤25%	Pass

In-Situ Temperature Measurement Test: Test Voltage: 120V 60Hz;

Test Item	Test Result	DLC Requirements	DLC Requirements(With tolerances and/or allowances)	Conclusion
TMP _{LED} (°C)	53.8	≤115	With tolerance of ≤ 1.1°C or 0.4%, whichever is greater due to thermocouple tolerance	Pass
TMP _c (°C)	59.8	≤85	With tolerance of ≤ 1.1°C or 0.4%, whichever is greater due to thermocouple tolerance	Pass
Drive Current/Individual LED source(mA)	82.3	≤150	With +5% tolerance	Pass
L ₉₀ Lumen Maintenance Life (Hours)	51000	≥36000	None.	Pass
Color Maintenance	0.002	≤0.007	≤0.0074	Pass

Note:

1. The test results were measured directly from the test equipment.
2. The DLC requirements were listed according to DLC Technical Requirements V5.1.
3. The conclusion is for reference only. Test report that indicate product performance meets DLC Technical Requirements do not represent official DLC product qualification. All decisions regarding product qualification are made by the DLC.



Test Data

[Integrating Sphere System]

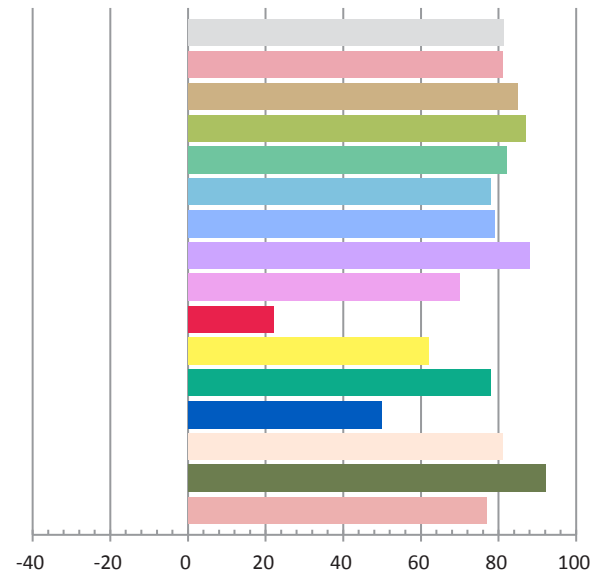
Photometric and Electrical Measurement Result

Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy (lm/W)
120.0	60	0.1804	21.57	0.9959	3484.4	161.54

Radiant Flux (W)	CCT (K)	Duv	x	y	u'	v'
9.710	3380	0.00308	0.4158	0.4030	0.2374	0.5178

Color Rendering Index

Ra			
81.2			
R1	R2	R3	R4
81	85	87	82
R5	R6	R7	R8
78	79	88	70
R9	R10	R11	R12
22	62	78	50
R13	R14	R15	
81	92	77	



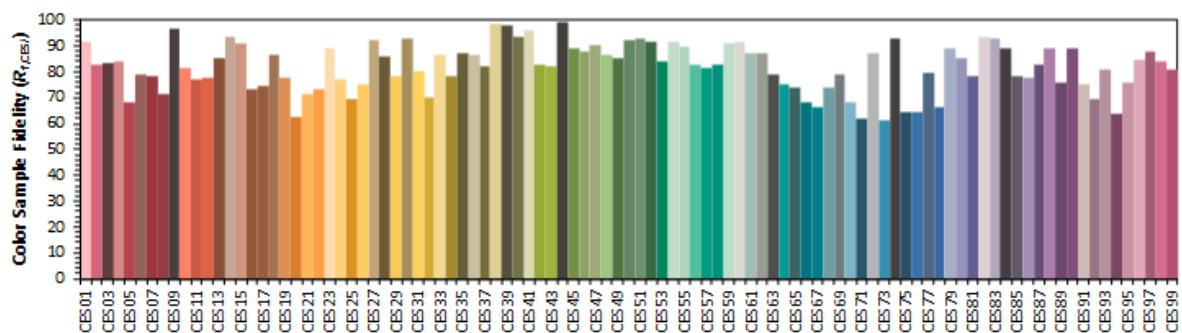
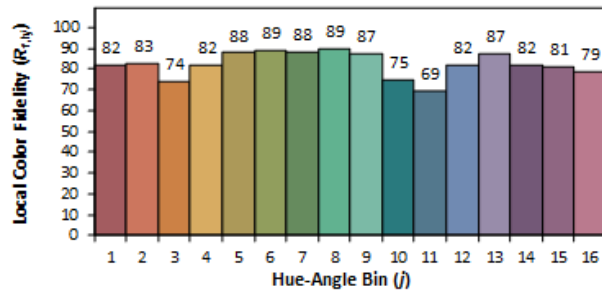
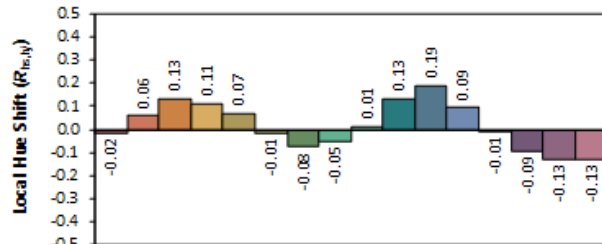
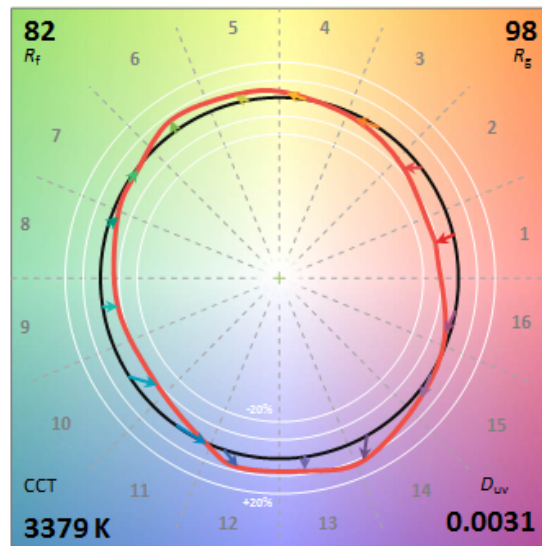
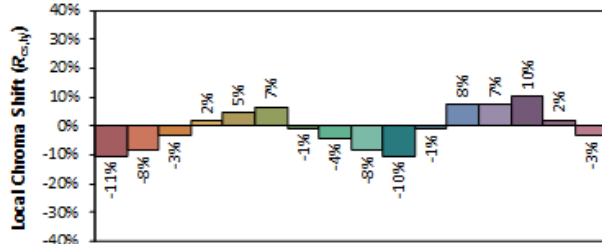
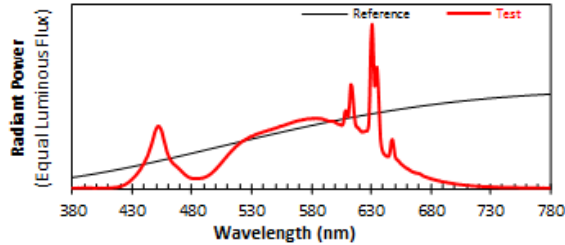
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: RENO LED LIGHTING INC

Date: 2023/8/5

Model: RENO-LSN2-22W-DV-MCCT-MS



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

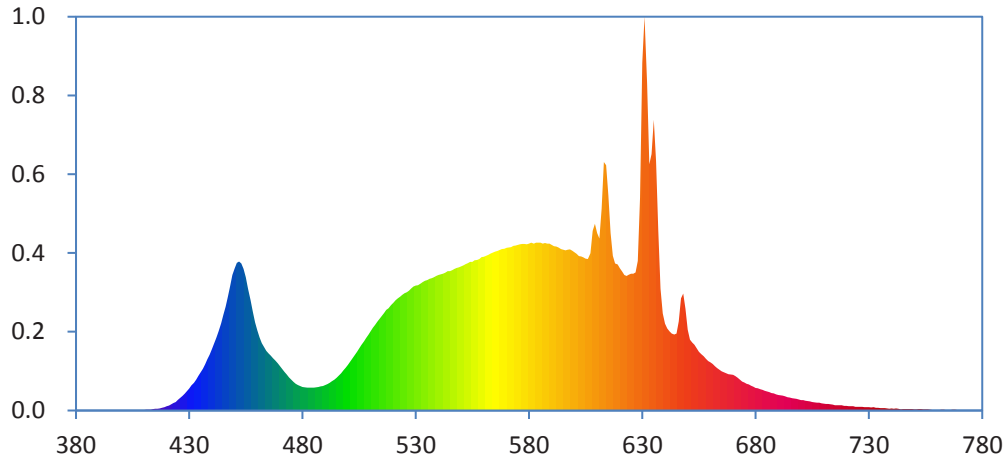
x 0.4158
 y 0.4030
 u' 0.2375
 v' 0.5178

CIE 13.3-1995
(CRI)

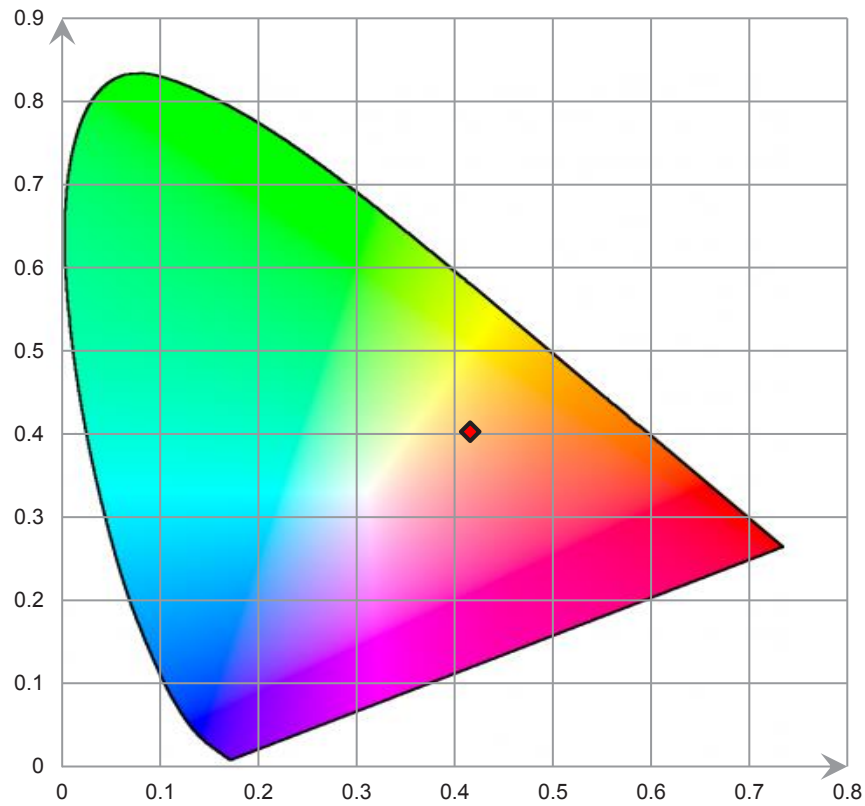
R_a 81
 R_g 22

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

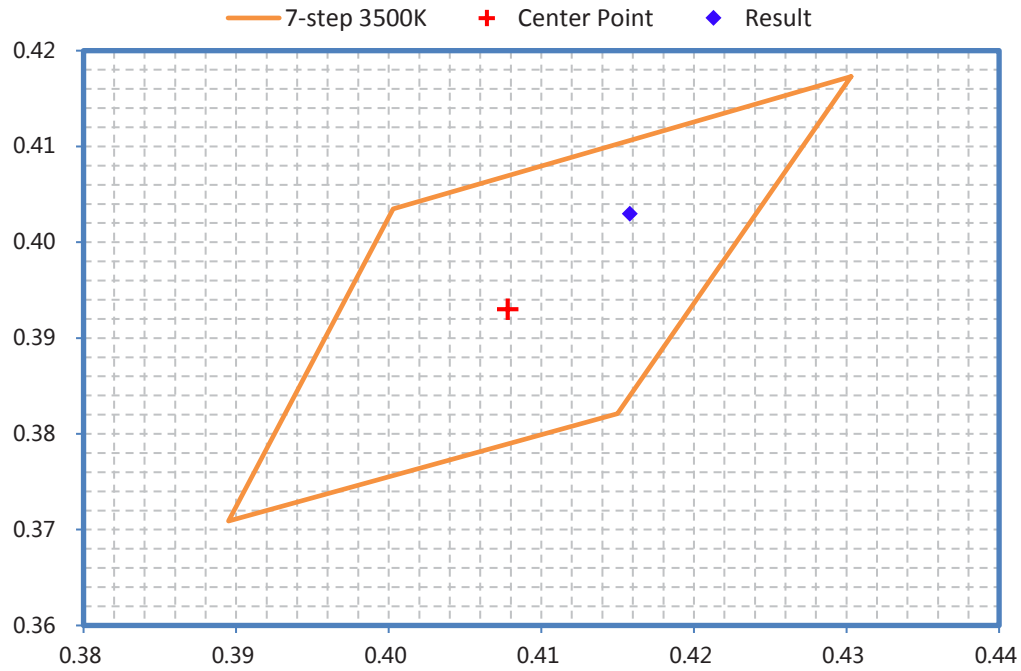
Relative Spectral Power Distribution



CIE 1931 x y Chromaticity Diagram



ANSI C78.377-2017 Chromaticity Quadrangles



[Goniophotometer System]

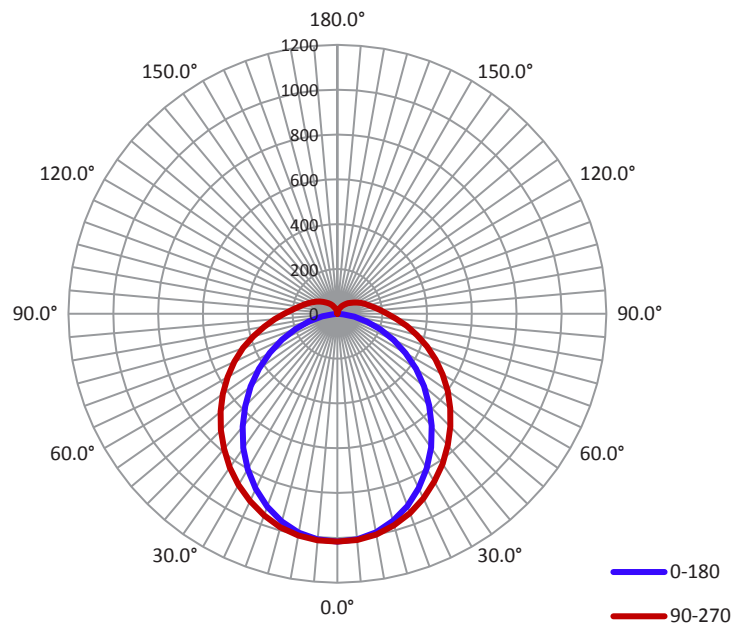
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.0	60	0.18	21.58	0.998

Photometric Measurement

Luminous Flux (lm)	Efficacy (lm/W)	I _{max} (cd)	S/MH (C0/180)	S/MH (C90/270)
3486.3	161.6	1017.1	1.18	1.28

Luminous Intensity Distribution



	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle (50% I _{max}):	99.5	112.5	127.8	114.2	113.5
Field Angle (10% I _{max}):	155.0	198.9	242.1	206.5	200.6

Luminous Intensity (cd) Distribution Data

$\begin{matrix} C \\ \backslash \\ Y \end{matrix}$	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
0.0°	1016.2	1016.2	1016.2	1016.2	1016.2	1016.2	1016.2	1016.2
5.0°	1010.0	1009.5	1010.8	1011.8	1012.9	1013.3	1013.4	1012.9
10.0°	990.3	990.8	994.4	998.3	1000.0	999.6	998.5	996.1
15.0°	956.7	959.8	965.8	973.4	977.4	976.8	973.1	968.0
20.0°	912.2	917.7	928.2	939.7	945.8	944.0	937.5	926.8
25.0°	857.8	866.3	879.8	899.4	908.1	904.4	894.4	877.6
30.0°	797.6	808.6	826.8	851.2	864.2	858.1	842.9	819.4
35.0°	728.0	742.3	768.6	799.9	817.4	807.6	787.2	755.9
40.0°	654.5	672.9	707.0	744.3	765.2	753.8	725.8	686.9
45.0°	579.8	599.9	643.4	686.4	711.7	696.0	663.2	617.1
50.0°	503.9	527.8	576.8	625.5	657.1	638.6	597.9	545.5
55.0°	427.8	455.5	513.4	565.7	600.8	580.3	533.2	473.3
60.0°	351.4	384.0	449.4	505.5	542.9	520.5	469.1	400.9
65.0°	276.5	315.2	386.3	446.0	483.7	461.2	405.1	330.9
70.0°	205.1	247.6	323.1	387.7	425.5	401.7	342.1	264.3
75.0°	137.1	185.1	264.1	330.2	367.9	344.5	282.5	201.8
80.0°	76.0	129.2	210.9	277.5	313.8	291.1	228.1	143.7
85.0°	26.4	83.3	165.3	230.9	263.9	243.1	182.9	97.5
90.0°	0.0	53.5	132.0	192.5	222.8	203.0	146.4	67.0
95.0°	0.0	41.1	109.9	164.1	190.1	172.8	123.0	53.2
100.0°	0.0	34.4	95.7	143.4	166.0	151.1	107.5	44.8
105.0°	0.0	29.6	84.9	127.0	146.3	133.2	94.5	38.5
110.0°	0.0	25.7	74.3	112.2	129.8	117.4	83.6	33.4
115.0°	0.0	22.6	65.7	99.4	114.4	103.6	73.0	29.4
120.0°	0.0	20.5	57.7	87.4	100.7	91.1	64.3	26.1
125.0°	0.0	17.7	50.8	77.5	88.1	80.3	56.2	22.9
130.0°	0.0	16.5	44.5	67.6	76.6	70.1	49.0	20.3
135.0°	0.0	14.2	38.6	58.6	66.3	60.7	41.5	17.9
140.0°	0.0	13.4	34.3	50.2	56.2	51.9	35.8	15.7
145.0°	0.0	12.1	29.7	42.6	48.0	43.0	29.7	13.7
150.0°	0.7	11.8	25.9	36.5	39.5	35.3	23.6	11.4
155.0°	1.3	10.7	22.0	29.3	32.0	27.3	17.6	9.0
160.0°	2.0	9.7	17.7	22.9	23.9	19.8	12.1	6.3
165.0°	2.6	8.4	13.3	16.4	16.8	12.9	6.5	4.4
170.0°	2.5	5.6	8.9	10.1	10.1	5.6	3.4	3.3
175.0°	2.4	3.5	4.6	4.6	3.8	3.5	2.8	2.9
180.0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Luminous Intensity (cd) Distribution Data (cont.)

$\begin{matrix} C \\ \backslash \\ Y \end{matrix}$	180°	202.5°	225°	247.5°	270°	292.5°	315°	337.5°
0.0°	1016.2	1016.2	1016.2	1016.2	1016.2	1016.2	1016.2	1016.2
5.0°	1010.5	1011.6	1013.9	1014.2	1014.0	1013.4	1011.6	1009.3
10.0°	991.8	994.2	1000.2	1003.6	1004.2	1001.9	997.2	990.8
15.0°	959.4	966.0	975.9	982.8	985.5	980.0	971.6	961.0
20.0°	916.0	926.1	941.0	952.9	957.6	950.0	936.5	919.6
25.0°	862.0	875.7	898.3	915.1	921.9	911.9	892.7	869.3
30.0°	801.1	816.0	846.8	871.6	881.9	868.3	842.2	811.1
35.0°	731.1	753.6	790.1	820.3	837.8	821.1	787.1	745.9
40.0°	657.5	684.4	729.0	770.0	786.5	767.6	727.9	678.5
45.0°	582.3	613.8	664.2	713.4	734.3	711.8	664.2	608.3
50.0°	504.8	539.1	599.7	655.9	680.1	654.9	601.5	537.5
55.0°	426.9	465.6	535.2	596.3	624.1	595.9	537.3	467.0
60.0°	348.2	392.6	470.5	536.2	566.4	536.3	473.4	395.6
65.0°	273.0	322.1	406.2	474.9	507.2	476.2	410.8	327.6
70.0°	199.9	254.3	342.2	413.0	448.3	415.5	348.8	262.3
75.0°	131.0	189.1	281.7	354.0	389.5	357.2	289.7	201.0
80.0°	68.9	131.9	225.8	298.7	332.5	302.5	235.1	145.1
85.0°	23.5	85.2	177.7	248.7	281.3	253.4	187.7	99.9
90.0°	0.0	55.4	142.6	208.1	237.8	213.4	152.7	69.5
95.0°	0.0	43.6	119.6	177.2	203.5	182.5	128.6	55.9
100.0°	0.0	37.2	104.2	154.8	177.3	159.2	112.9	48.5
105.0°	0.0	31.7	92.1	137.1	156.3	140.4	100.3	41.3
110.0°	0.0	27.8	81.2	121.5	138.6	124.7	88.6	36.7
115.0°	0.0	24.7	71.4	107.4	122.3	110.7	78.5	32.5
120.0°	0.0	21.6	62.7	94.6	107.8	97.2	68.9	28.7
125.0°	0.0	19.3	54.9	82.8	95.2	85.8	60.9	25.7
130.0°	0.0	16.1	47.5	72.3	83.0	75.2	53.3	23.2
135.0°	0.0	14.2	41.0	62.6	71.8	65.8	46.4	20.1
140.0°	0.0	11.2	35.1	53.4	62.2	56.2	39.4	17.7
145.0°	0.0	10.0	29.9	45.1	51.6	46.9	33.9	15.7
150.0°	0.0	9.1	23.9	37.1	42.4	38.5	28.3	13.2
155.0°	0.6	6.3	18.4	29.1	34.0	31.1	22.7	11.5
160.0°	1.2	4.5	14.1	21.8	25.4	23.2	17.4	8.8
165.0°	1.6	3.4	9.1	15.2	17.8	16.6	12.6	6.4
170.0°	2.0	2.7	5.3	9.2	10.4	10.1	8.3	4.7
175.0°	2.5	2.3	2.9	4.1	5.3	5.3	4.3	3.1
180.0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Test Model: RENO-LSN2-22W-DV-MCCT-MS
Control Setting: 4000K

Integrating Sphere Test; Orientation: Downward; Test Voltage: 120V 60Hz:				
Test Item	Test Result	DLC Requirements	DLC Requirements(With tolerances only)	Conclusion
Light Output(lm)	3588.4	750~5000	675~5500	Pass
Power(W)	20.94	None.	None.	N/A
Total Efficacy(lm/W)	171.39	≥120	≥116.4	Pass
CCT(K)	3896	None ⁱ	None.	N/A
Duv	0.00351	None ⁱ	None.	N/A
IES R _r	83	70	69	Pass
IES R _g	98	89	88	
IES R _{cs,h1}	-9%	-18%~23%	-19%~24%	
R _a	83.2	≥70	≥69	
R ₉	35	/	/	

Note:

- i. White-tunable products are not required to meet the chromaticity requirements in DLC V5.1.

THDi、PF Test; Orientation: Downward:					
Test Voltage	Test Item	Test Result	DLC Requirements	DLC Requirements(With tolerances and/or allowances)	Conclusion
120	Power Factor	0.9958	≥0.9	≥0.87	Pass
120	THDi	2.57%	≤20%	≤25%	Pass
277	Power Factor	0.9534	≥0.9	≥0.87	Pass
277	THDi	8.32%	≤20%	≤25%	Pass
347	Power Factor	0.9059	≥0.9	≥0.87	Pass
347	THDi	15.37%	≤20%	≤25%	Pass

Note:

- The test results were measured directly from the test equipment.
- The DLC requirements were listed according to DLC Technical Requirements V5.1.
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Test Data

[Integrating Sphere System]

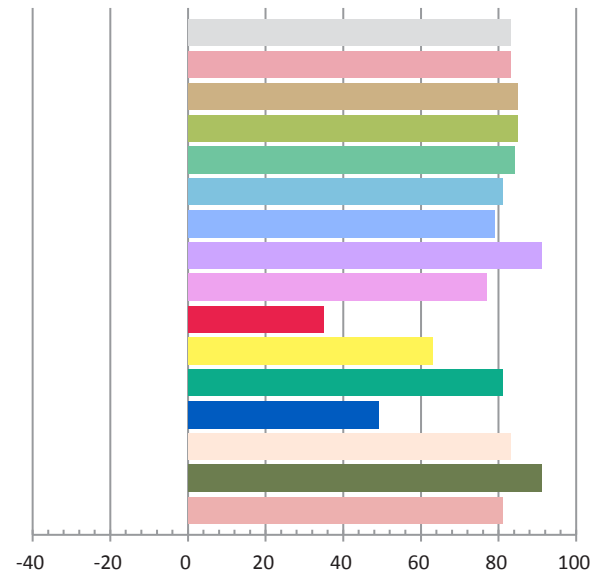
Photometric and Electrical Measurement Result

Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy (lm/W)
120.0	60	0.1753	20.94	0.9954	3588.4	171.39

Radiant Flux (W)	CCT (K)	Duv	x	y	u'	v'
10.188	3896	0.00351	0.3879	0.3890	0.2251	0.5079

Color Rendering Index

Ra			
83.2			
R1	R2	R3	R4
83	85	85	84
R5	R6	R7	R8
81	79	91	77
R9	R10	R11	R12
35	63	81	49
R13	R14	R15	
83	91	81	



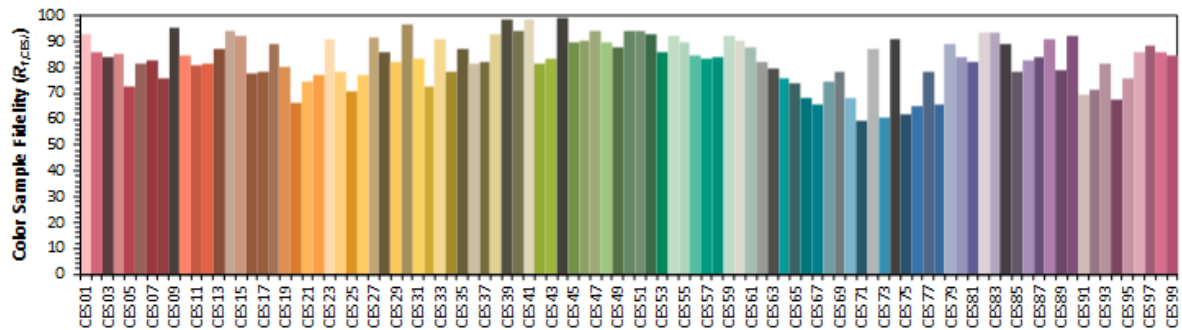
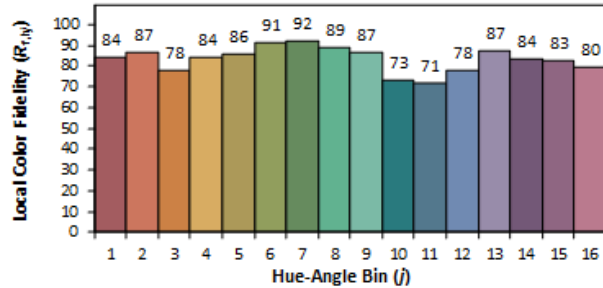
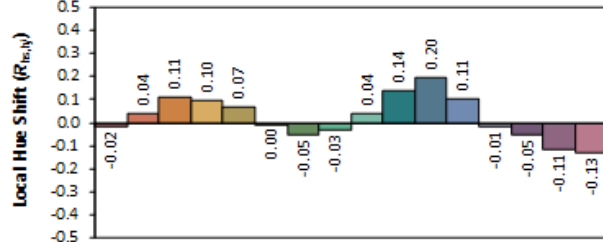
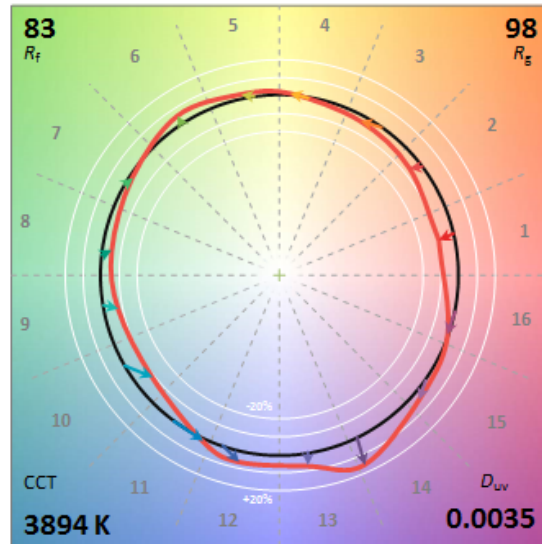
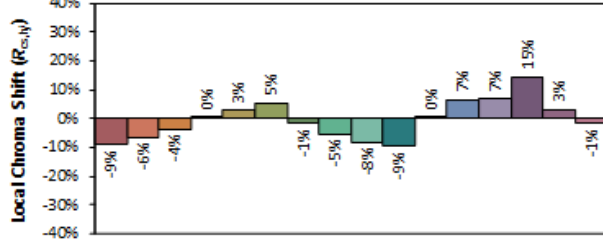
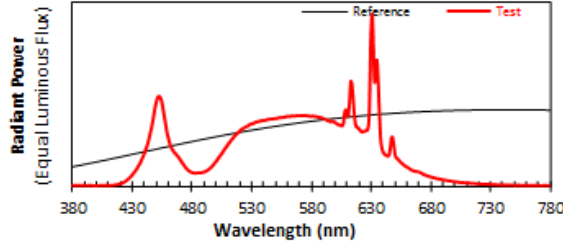
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: RENO LED LIGHTING INC

Date: 2023/8/5

Model: RENO-LSN2-22W-DV-MCCT-MS



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

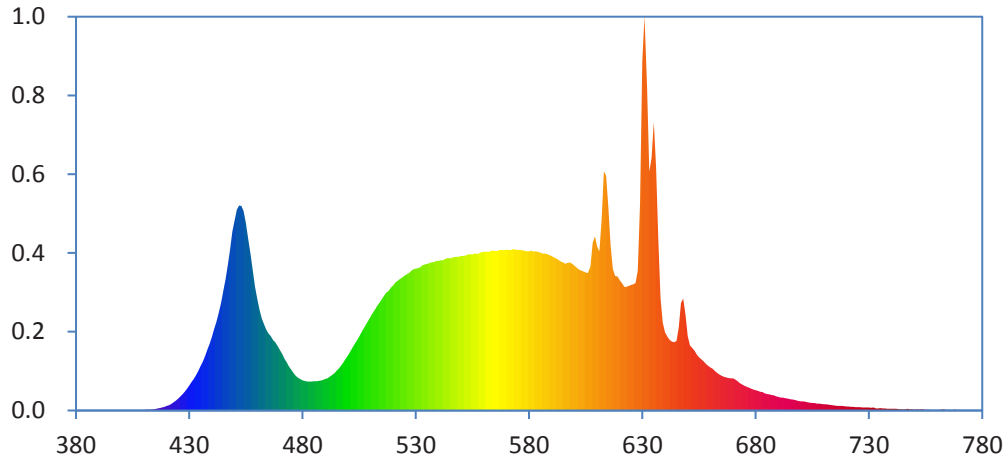
x 0.3879
 y 0.3889
 u' 0.2252
 v' 0.5079

CIE 13.3-1995
(CRI)

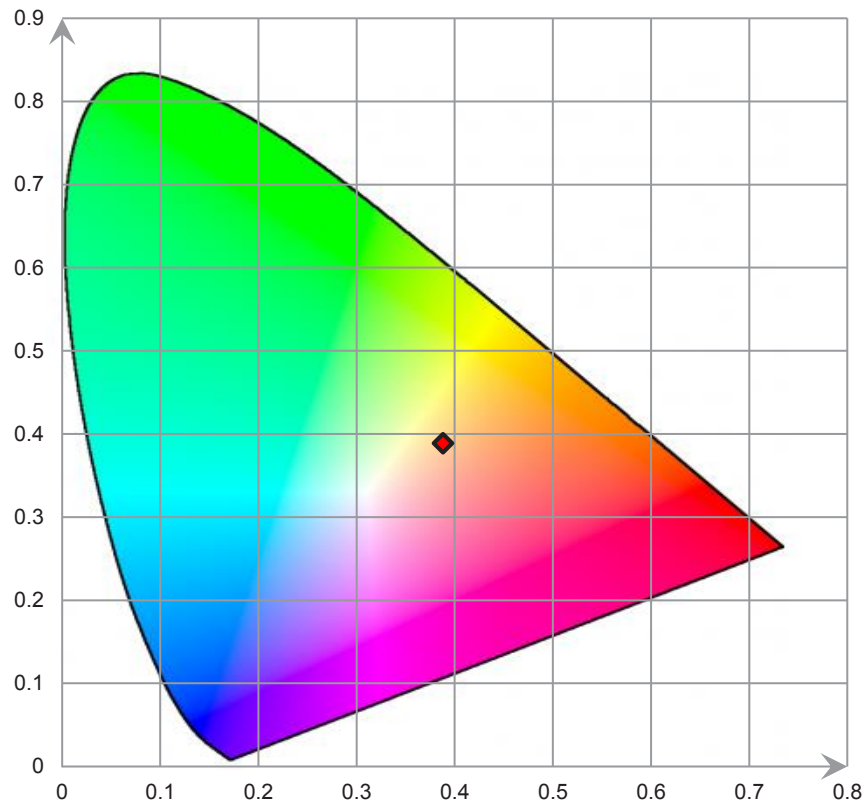
R_a 83
 R_g 35

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

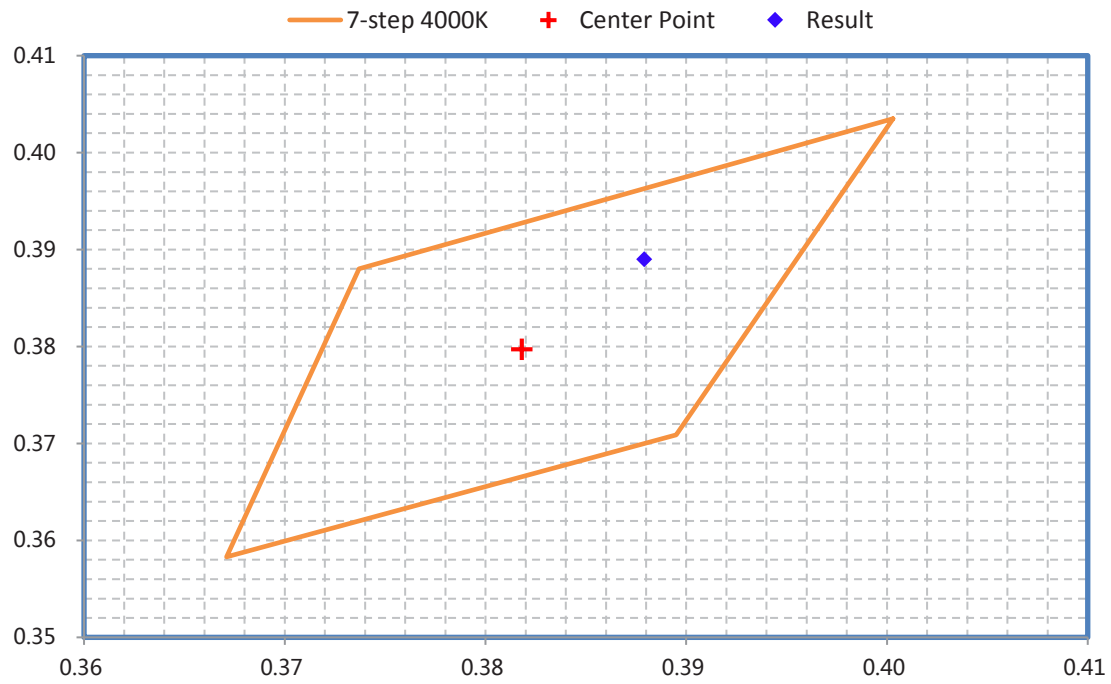
Relative Spectral Power Distribution



CIE 1931 x y Chromaticity Diagram



ANSI C78.377-2017 Chromaticity Quadrangles



Test Model: RENO-LSN2-22W-DV-MCCT-MS
Control Setting: 5000K

Integrating Sphere Test; Orientation: Downward; Test Voltage: 120V 60Hz:				
Test Item	Test Result	DLC Requirements	DLC Requirements(With tolerances only)	Conclusion
Light Output(lm)	3512.1	750~5000	675~5500	Pass
Power(W)	21.63	None.	None.	N/A
Total Efficacy(lm/W)	162.35	≥120	≥116.4	Pass
CCT(K)	4622	None ⁱ	None.	N/A
Duv	0.00469	None ⁱ	None.	N/A
IES R _r	82	70	69	Pass
IES R _g	99	89	88	
IES Rcs,h1	-8%	-18%~23%	-19%~24%	
R _a	83.2	≥70	≥69	
R ₉	42	/	/	

Note:

- i. White-tunable products are not required to meet the chromaticity requirements in DLC V5.1.

THDi、PF Test; Orientation: Downward:					
Test Voltage	Test Item	Test Result	DLC Requirements	DLC Requirements(With tolerances and/or allowances)	Conclusion
120	Power Factor	0.9958	≥0.9	≥0.87	Pass
120	THDi	2.57%	≤20%	≤25%	Pass
277	Power Factor	0.9534	≥0.9	≥0.87	Pass
277	THDi	8.32%	≤20%	≤25%	Pass
347	Power Factor	0.9045	≥0.9	≥0.87	Pass
347	THDi	15.31%	≤20%	≤25%	Pass

Note:

- The test results were measured directly from the test equipment.
- The DLC requirements were listed according to DLC Technical Requirements V5.1.
- The conclusion is for reference only. Test report that indicate product performance meets DLC Technical Requirements do not represent official DLC product qualification. All decisions regarding product qualification are made by the DLC.

Test Data

[Integrating Sphere System]

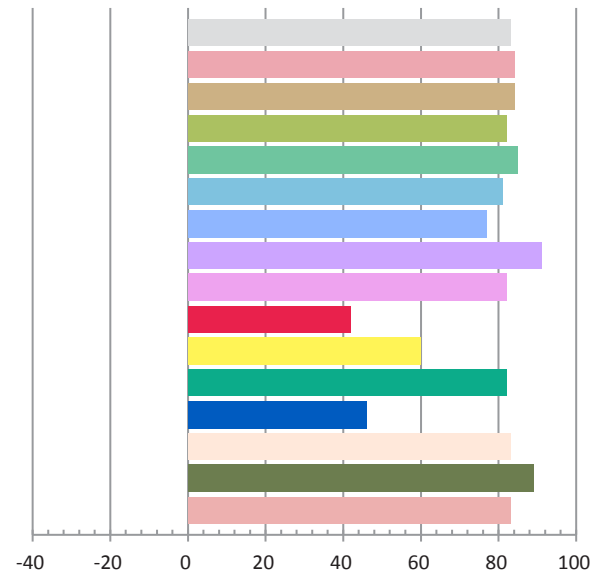
Photometric and Electrical Measurement Result

Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy (lm/W)
120.0	60	0.181	21.63	0.9959	3512.1	162.35

Radiant Flux (W)	CCT (K)	Duv	x	y	u'	v'
10.220	4622	0.00469	0.3583	0.3715	0.2126	0.4960

Color Rendering Index

Ra 83.2			
R1 84	R2 84	R3 82	R4 85
R5 81	R6 77	R7 91	R8 82
R9 42	R10 60	R11 82	R12 46
R13 83	R14 89	R15 83	



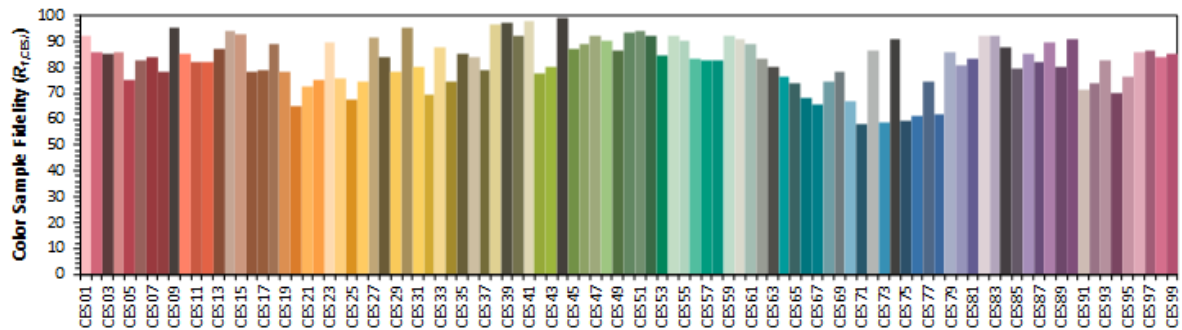
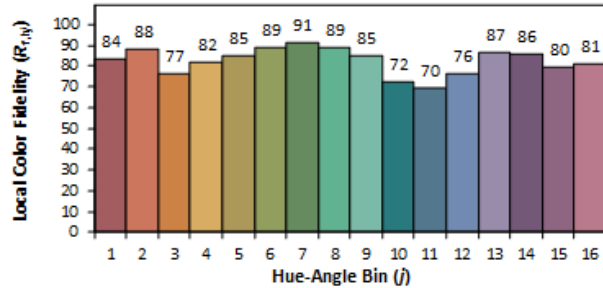
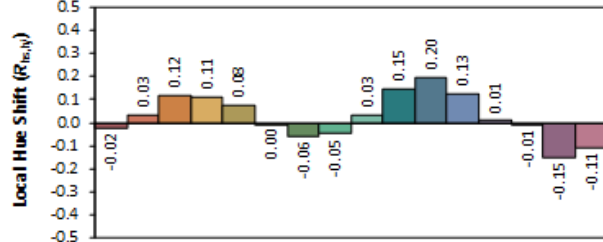
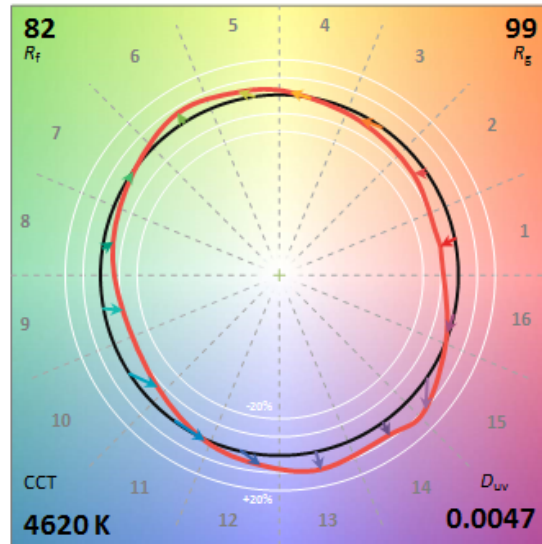
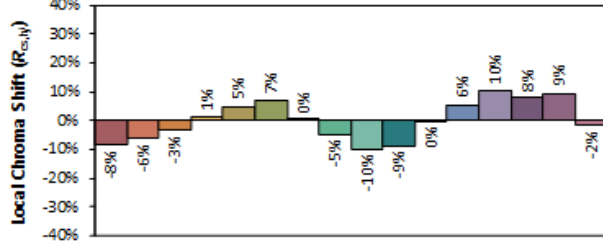
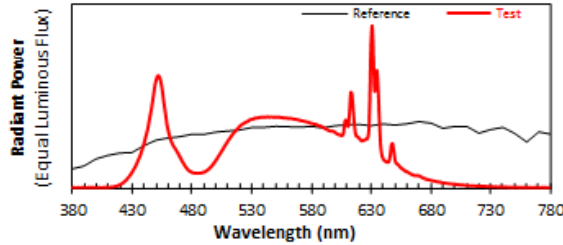
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: RENO LED LIGHTING INC

Date: 2023/8/5

Model: RENO-LSN2-22W-DV-MCCT-MS



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

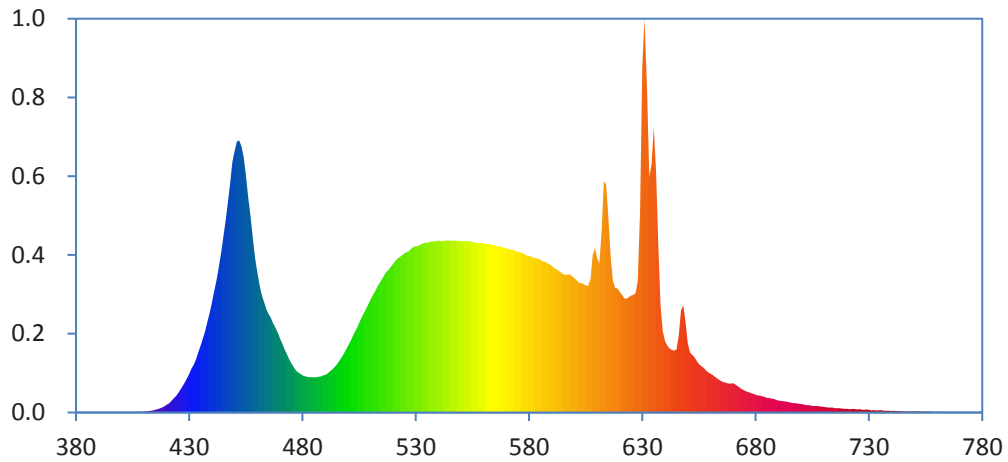
x 0.3584
 y 0.3714
 u' 0.2127
 v' 0.4959

CIE 13.3-1995
(CRI)

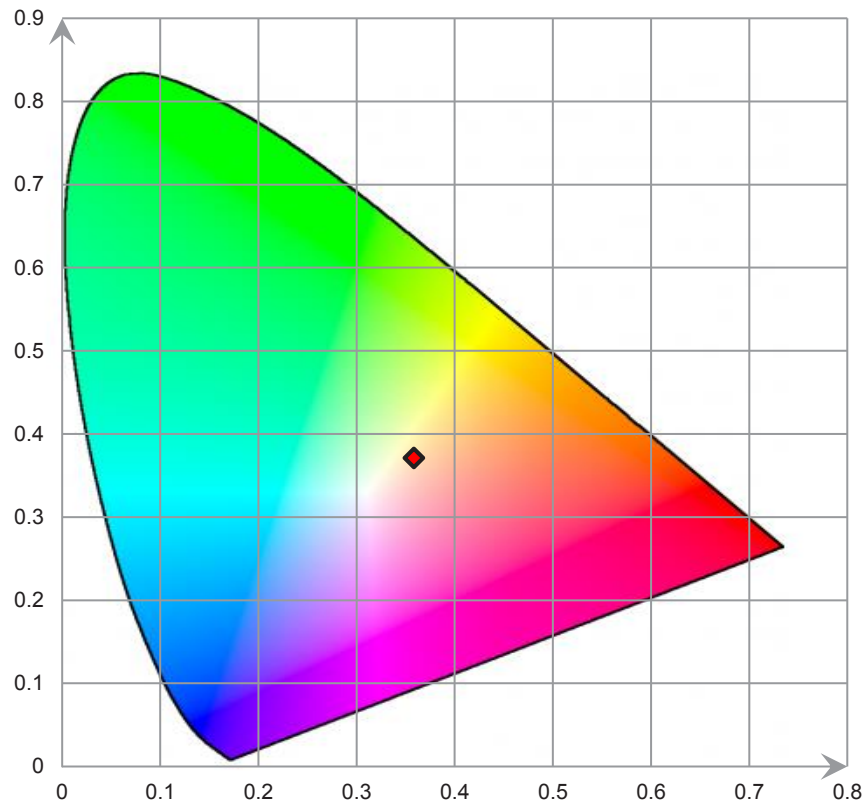
R_a 83
 R_g 40

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

Relative Spectral Power Distribution



CIE 1931 x y Chromaticity Diagram



6. Description of Test Equipment

Device	Manufacture	Model No	Serial No	Calibration date	Calibration due date
Integrating Sphere	INVENTFINE	Dia 1.5m	JWWCV090112	2023-05-19	2024-05-18
Power Meter	INVENTFINE	WT500	GSJWQ20009	2022-11-03	2023-11-02
Spectral photometer	INVENTFINE	CMS-3S	GSGSE100017	2023-05-19	2024-05-18
AC Power Supply	INVENTFINE	CHP500	JWJSD010071	2023-05-19	2024-05-18
Standard Light Source	Osram	24V/50W	JWWCR020104	2021-09-15	2023-09-14
Thermal Meter	ANYMETRE	TH-20E	N/A	2022-11-11	2023-11-10
DC Power Supply	INVENTFINE	WL3005	JWWCP020069	2023-05-19	2024-05-18
AC Power Supply	INVENTFINE	CHP-5KVA	900511765	2023-05-22	2024-05-21
DC Power Supply	INVENTFINE	WL3010	JWDMP030001	2023-05-22	2024-05-21
Power Meter	INVENTFINE	WT500	GSDSQ200007	2022-11-03	2023-11-02
Goniophotometer	INVENTFINE	GPM-1900	YWGCF120001	2022-11-14	2023-11-13
Wireless Weather Station	ZHONGXING	KG218	N/A	2023-05-22	2024-05-21
Standard Light Source	INVENTFINE	N/A	JWBYR040008	2021-12-23	2023-12-22
Digital Multimeter	FLUKE	115C	37840512WS	2023-05-22	2024-05-21
Hybrid Recorder	YOKOGAWA	DR230	47JH0903	2023-05-22	2024-05-21
Power Supply	SC	SC/BP-11003	1608110030553	2023-05-19	2024-05-18
Variable-Voltage Transformer	Guangfa	TDGC2-1KVA	N/A	N/A	N/A

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attested that all calibration has been performed using suitable standards traceable to National Primary Standards and International System of Units (SI).

7. Test Method

Product was tested with no seasoning. All stabilization and measurements were made in compliance with IES LM-79-19. The ambient temperature of the sample was maintained at 25°C±1°C during measurement. And relative humidity is less than 65%. The product was operated in its intended orientation in application during all testing.

Integrating Sphere System

The system includes AC power source, digital power meter, DC power supply, Spectroradiometer, and integrating sphere. The integrating sphere system is calibrated by standard spectrum light source before measurement. 4π geometry was used during measurement.

Goniophotometer System

Type C goniophotometer was used for measuring luminous intensity distribution. The vertical angle (γ) test intervals were set no more than 1 degree while data for 5 degree intervals is reported. The horizontal angle (C plane) test intervals were set no more than 22.5 degree.

ISTMT Test

The LED which has the highest temperature was measured at the location of LED case which is specified by LED source manufacturer and detailed by LM-80 report. The drive current of LED package/module/ array was calculated as the total output current of the driver measured by multimeter, divided by the number of branches in parallel of LEDs.

Directions

1. The information marked "superscript #" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
2. This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk "★"
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
6. This report cannot be reproduced except in full, without prior written approval of the Company.
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*****END OF REPORT*****