



Report No.: RHL21101817-9

LM-79-08 Test Report

For

GREEN CREATIVE LTD

(Brand Name: GREEN CREATIVE)

Room 3603, Level 36, Tower 1, Enterprise Square Five, 38 Wang Chiu Road,
Kowloon Bay, KL, Hong Kong

LED Lamps

Model name(s): 9.5A19DIM/850

Test & Report By:

Peter Zhou

Engineer: Peter Zhou

Date: Oct,25,2021

Review By:

Ryan Liang

Manager: Ryan Liang

1.1 Product Information:

Organization Name	GREEN CREATIVE LTD	
Brand Name	GREEN CREATIVE	
Model Number	9.5A19DIM/850	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	LED Lamps	
Rated Voltage / Frequency	120Vac, 60 Hz	
Nominal Power	9.5W	
Rated Initial Lamp Lumen	--	
Declared CCT	5000K	
LED Manufacturer	OSRAM OPTO SEMICONDUCTORS (MALAYSIA) SDN.BHD	
LED Model	GWx JTL6Sx.xM-xxxx-xxxx-x-x	
Sample Number	RHL21101817-901	
Lamp Length	--	mm
Lamp Width	--	mm
Number of Units (modular products)	N/A	s

Photo





1.2 Test Specifications:

Date of Receipt	Oct. 18, 2021
Date of Test	Oct. 20, 2021
Test item	<ol style="list-style-type: none">1. Total Luminous Flux2. Luminous Distribution Intensity3. Luminous Efficacy4. Correlated Color Temperature5. Color Rendering Index6. Chromaticity Coordinate7. Electrical Parameters
Reference Standard	<ol style="list-style-type: none">1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products and IES-LM-79-2019 OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources4. CIE 15-2004 Technical Report Colorimetry5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source6. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	HL-WI-EE-001, HL-WI-EE-002

1.3 Test Methods

1) Photometric and Light Distribution Measurement – Goniophotometer 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 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals.

2) Chromaticity Measurement – Sphere-Spectroradiometer Method:

Chromaticity parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained 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 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral power distribution taken at 5 nm intervals over the range of 380 to 780 nm.

3) Electrical Measurements:

Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.

**2.1 Electrical, Photometric and Chromaticity Measurements***(Refer to Work Instruction HL-WI-EE-001, HL-WI-EE-002)*

Test date	2021-10-20	Test Ambient:	25.1 °C
Model Number	9.5A19DIM/850	Stabilization Time (min)	90

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
RHL2110 1817-901	120.0	60	0.098	9.15	0.778	107.29

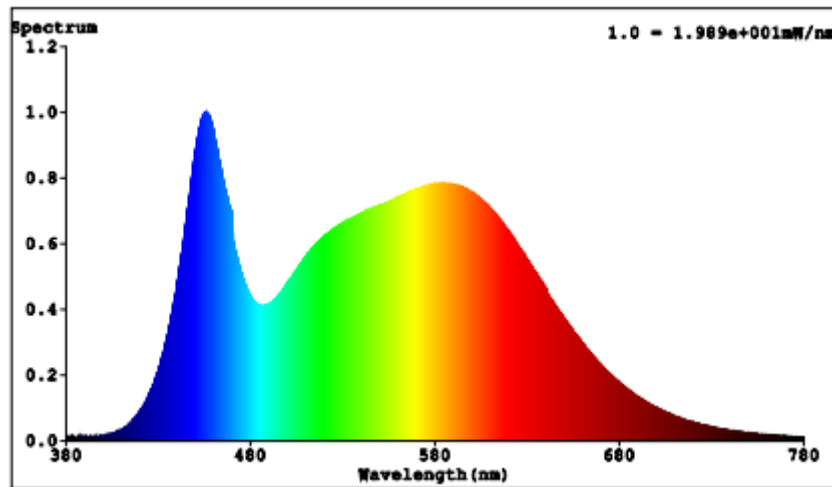
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	83	R9	14
Frequency (Hz)	60	R2	92	R10	79
CCT (K)	5005	R3	96	R11	79
Duv	0.0026	R4	81	R12	63
Chromaticity (x, y)	x = 0.3455 y = 0.3571	R5	82	R13	86
Chromaticity (u', v')	u' = 0.2096 v' = 0.4874	R6	87	R14	98
Color Rendering Index (CRI)	85	R7	87	R15	77
R9	13	R8	68	--	--
Rf	85	--	--	--	--
Rg	94	--	--	--	--
Rcs,h1(%)	-12	--	--	--	--

Photometric Measurement – Sphere-Spectroradiometer Method:

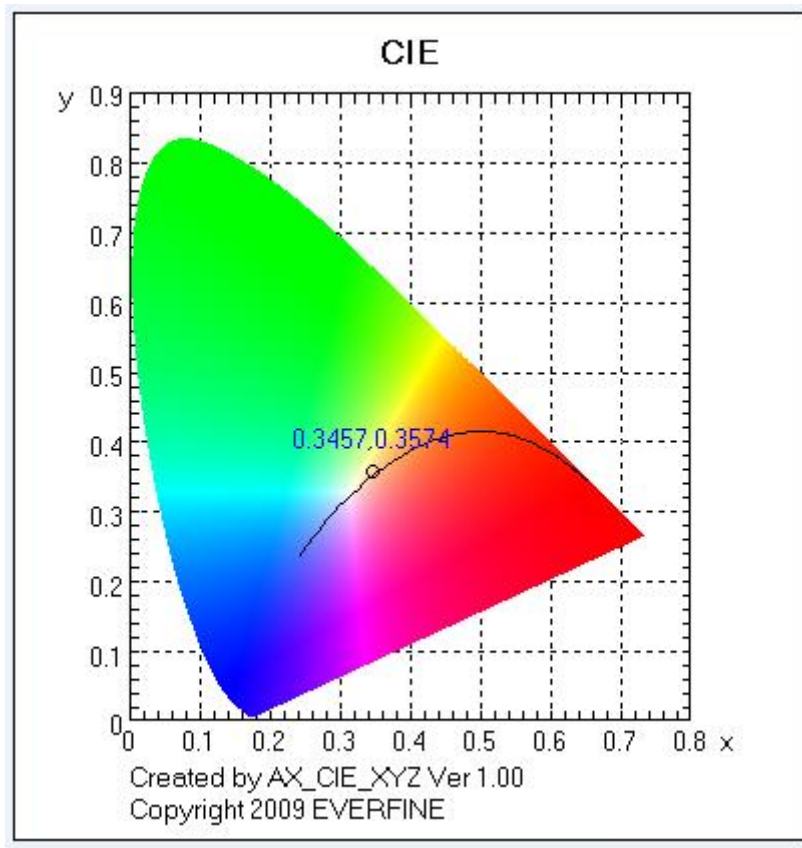
Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	981.57
Luminous Efficacy (lm/W)	107.29

Relative Spectral Power Distribution

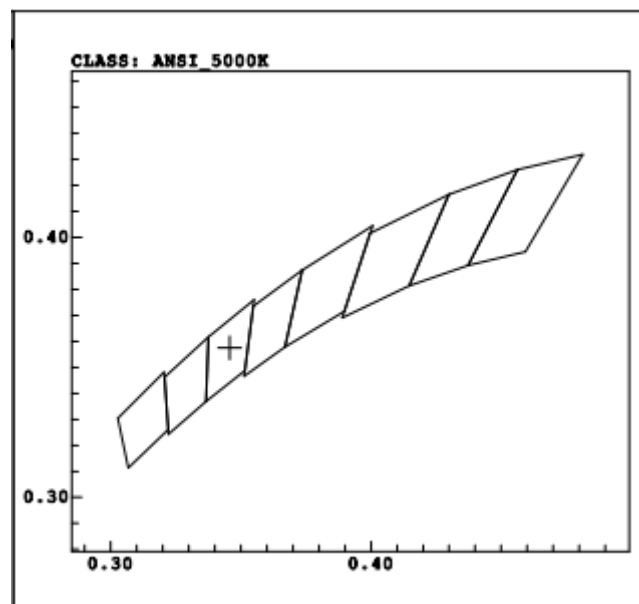


Spectral Distribution over Visible Wavelength							
WL(nm)	Radiant(Watts)	WL(nm)	Radiant(Watts)	WL(nm)	Radiant(Watts)	WL(nm)	Radiant(Watts)
380	0,0141	485	0,4119	590	0,7757	695	0,1159
385	0,0076	490	0,4150	595	0,7708	700	0,1001
390	0,0120	495	0,4411	600	0,7546	705	0,0859
395	0,0095	500	0,4813	605	0,7348	710	0,0737
400	0,0133	505	0,5200	610	0,7059	715	0,0643
405	0,0215	510	0,5594	615	0,6750	720	0,0555
410	0,0325	515	0,5937	620	0,6372	725	0,0472
415	0,0549	520	0,6214	625	0,5942	730	0,0406
420	0,0899	525	0,6435	630	0,5517	735	0,0350
425	0,1404	530	0,6609	635	0,5083	740	0,0300
430	0,2126	535	0,6760	640	0,4639	745	0,0259
435	0,3188	540	0,6898	645	0,4138	750	0,0224
440	0,4659	545	0,7033	650	0,3736	755	0,0190
445	0,6599	550	0,7157	655	0,3338	760	0,0164
450	0,8711	555	0,7255	660	0,2970	765	0,0145
455	0,9946	560	0,7416	665	0,2599	770	0,0125
460	0,9357	565	0,7523	670	0,2317	775	0,0110
465	0,7974	570	0,7635	675	0,2018	780	0,0101
470	0,6872	575	0,7746	680	0,1760		
475	0,5106	580	0,7807	685	0,1540		
480	0,4392	585	0,7827	690	0,1336		

CIE 1931xy Chromaticity Diagram



Chromaticity Quadrangles



**2.2 Electrical, Photometric and Chromaticity Measurements***(Refer to Work Instruction HL-WI-EE-001, HL-WI-EE-002)*

Test date	2021-10-20	Test Ambient:	25.1 ° C
Model Number	9.5A19DIM/850	Stabilization Time (min)	90

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
RHL2110 1817-901	120.0	60	0.100	9.30	0.772	81.89

Photometric Measurement – Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	948.7
Luminous Efficacy (lm/W)	102.01
Beam Angle (°)	223.8
Center Beam Candle Power (cd)	114



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Zonal Lumen Tabulation

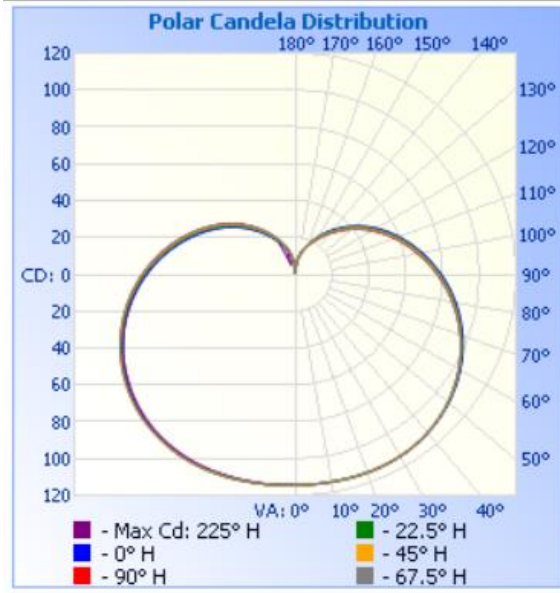
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	96.9	10.2%	10.2%
0-40	168.8	17.8%	17.8%
0-60	352.4	37.1%	37.1%
60-90	293.1	30.9%	30.9%
70-100	274.1	28.9%	28.9%
90-120	205.3	21.6%	21.6%
0-90	645.5	68%	68%
90-180	303.2	32%	32%
0-180	948.7	100%	100%

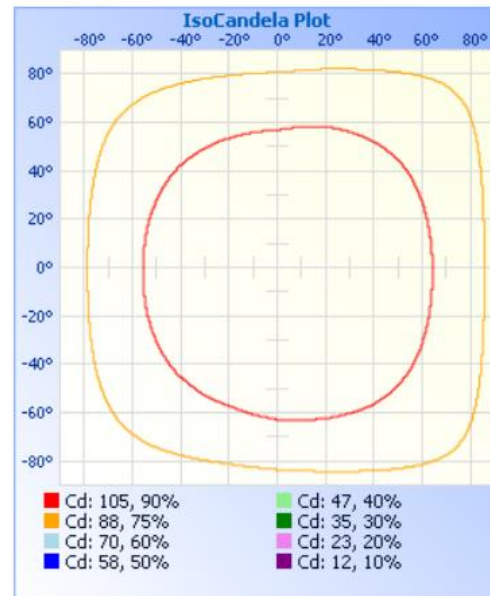
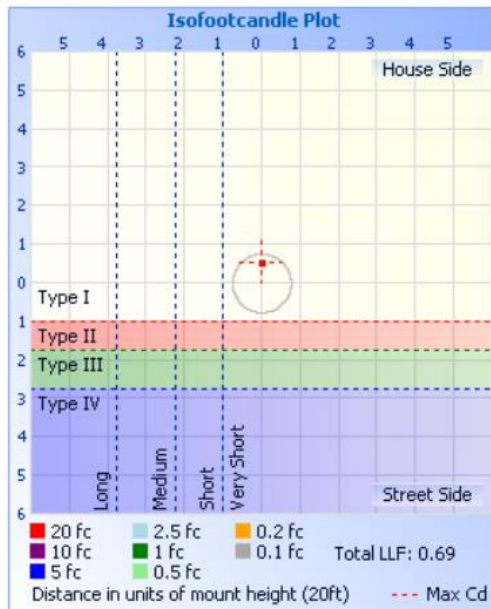
Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	10.9	1.2%	90-100	81.9	8.6%
10-20	32.6	3.4%	100-110	68.8	7.2%
20-30	53.4	5.6%	110-120	54.7	5.8%
30-40	71.9	7.6%	120-130	40.6	4.3%
40-50	86.8	9.2%	130-140	27.6	2.9%
50-60	96.7	10.2%	140-150	16.9	1.8%
60-70	101.0	10.6%	150-160	8.7	0.9%
70-80	99.5	10.5%	160-170	3.6	0.4%
80-90	92.7	9.8%	170-180	0.5	0.1%

Photometric Data

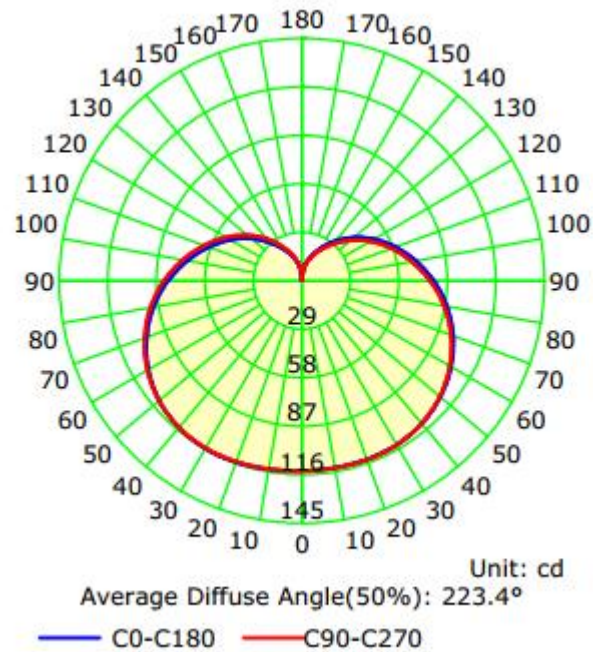


Illuminance at a Distance		
	Center Beam fc	Beam Width
17.0ft	0.40 fc	
34.0ft	0.10 fc	
51.0ft	0.04 fc	
68.0ft	0.02 fc	
85.0ft	0.02 fc	
102.0ft	0.01 fc	





Luminous Intensity Distribution Curve



	C0/C180	C90/C270	C45/C225	C135/315	Avg.
Field Angle	331.8	332.1	332.7	330.7	331.84
Beam Angle	223.1	223.8	223.4	223.9	223.55

**Candela Table - Type C**

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
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Laboratory: Hopestar Test Lab Limited, NVLAP Code: 600245-0
Add: Room 212, 24 Building, 7 Qingyi Road, Hi-Tech Zone, Ningbo, China
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Laboratory: Hopestar Test Lab Limited, NVLAP Code: 600245-0
Add: Room 212, 24 Building, 7 Qingyi Road, Hi-Tech Zone, Ningbo, China
www.hopestartest.com

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172	7	7	7	7	6	6	6	6	7	7	8	8	8	8	7	7	7
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178	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3. Test Equipment

Equipment Name	Model No.	Serial No.	Next Calibration Date
Goniophotometric System	GPM-3000	91N827816	2022-09-26
AC Power Source	CHP-1000	213630	2022-09-19
Total Luminous Flux Standard Lamp	24V150W	24V150W	2022-08-10
Digital Power Meter	WT500	TBS1012 C020506	2022-09-19
Integral Sphere (2M)	2m sphere	N.A	N/A
Digital Power Meter	PF310A	P609877CD1391157	2022-04-02
Optical Color and Electrical Measurement System	HAAS-2000	M108544CM5351115	2022-09-26
Expand Uncertainty: Photometric Measurement (Sphere): 2.08%, k=2 Chromaticity Measurement(Sphere):25.6K, k=2 Photometric Measurement(Goniophotometer):2.645%, k=2			

***** END OF REPORT *****