



NVLAP Lab Code: 200952-0

Verification Services

Project No: 10032647-2
 Report No: 10032647-2d
 Report Issued Date: 2015-11-16

Test Report


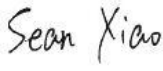
Relevant Standards: IES LM-79-2008

Customer Company & Address:			
ADD: YANGFAN RD, LIUSHI FOREIGN ECON AND DEV ZONE, YUEQING CITY, ZHEJIANG PROVINCE, CHINA			
Contact Person:	Huangcheng		
Telephone:	+86 13968778510	Fax/Email address:	cekichen@yotai.com

Manufacturer:	
Country of Origin:	China
Country of Export:	USA
Product Description:	Lamp type: SSL Downlight Retrofits Total amount of light source: 30 pcs The manufacturer of light source: LEXTAR The model number of light source: PC56H01 V4
Model Number:	8559
Electrical Specification:	Rated Voltage: 120 V AC Rated Frequency: 60 Hz Rated Wattage: 12.5 W

Test Laboratory & Address:			
UL Verification Services (Guangzhou) Co., Ltd.			
ADD: Building A1, 1F & 2F, Nansha Science and Technology Innovation Center, No. 25, South Huanshi Avenue , Nansha District, Guangzhou 511458, China			
Telephone:	+86 20 28667188	Fax:	+86 20 83486605

Receipt of Test Samples :	2015-11-10	Test Period:	2015-11-16
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Tested By	Approved By
 / Chuck Lin	 / Sean Xiao
Test Personnel Name & Signatory	Approval Name & Signatory

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



Test Report

Statement of Results

Test Flow	Test Method	Sample ID (Lab)	Sample Serial No.	Pass/Fail/NA
1.	Integrating Sphere Test	019597-S001	N/A	Evaluate by customer

Deviation from Test Method (if any)

N/A

Remark (if any)

1. This report shall not be used by the client to claim product endorsement by NVLAP, NIST or any agency of the US government.



Test Report

Test No.1: Integrating Sphere Test

Environmental Conditions

Temperature: 25.1°C

Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
GVS-LE-PE002	Integrating Sphere	Before Use	Before Use
GVS-LE-FS009	Measurement Standard Lamp	8/20/2015	8/19/2016

Test Sample

019597-S001

Test Method

The sample was tested according to the IES LM-79-2008. Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C ± 1° 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 rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Test Results

Test Type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation	Operate time (Min.)	Stabilization time (Min.)
Input	120.06	60	0.107	11.59	0.903	Base Up	58	50

Test type	CCT (K)	Luminous Flux (lm)	Color Rendering Index Ra	Luminous Efficacy (lm/W)
Output	2975	854.29	92.2	73.68



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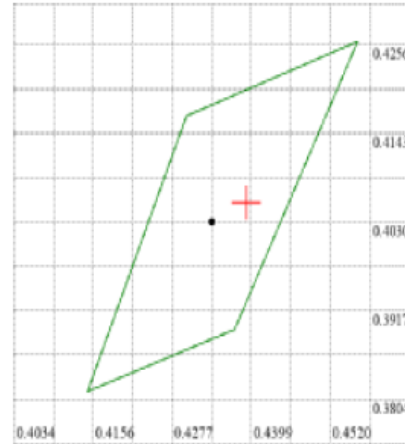
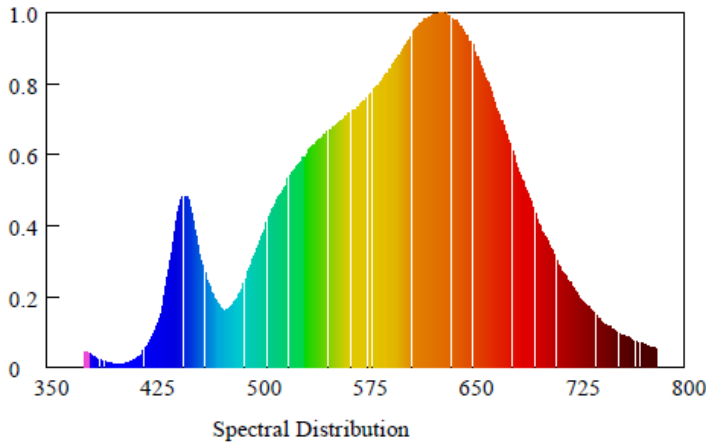
8559

Test Condition

Temperature: 25.1°C
Spectrum Range: 380-780 nm

RH: ----%
Scan Step: 1 nm

Spectroradiometric Parameters



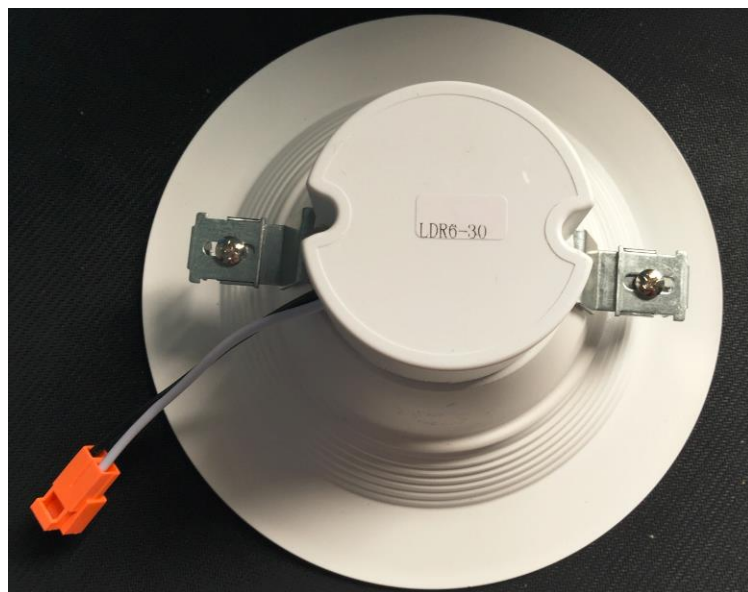
Nominal CCT:LED_3000K
x0=0.4391 y0=0.4055

Chromaticity Coordinates: $x=0.4391$ $y=0.4055$ $u'=0.2514$ $v'=0.5223$
 Correlated Color Temperature: 2975 K Dominant Wavelength: 581.0 nm(E)
 Luminous Flux: 854.288 lm Purity: 0.5382
 Chromaticity Difference: +0.00027Duv Peak Wavelength: 629.6 nm
 Color Ratio: $K_r=43.3\%$ $K_g=49.4\%$ $K_b=7.3\%$
 Bandwidth: 169.6nm Radiant Flux: 2.944 W
 Rendering Index: Ra=92.2
 R1=94 R2=94 R3=92 R4=93 R5=92 R6=91 R7=95 R8=88
 R9=71 R10=83 R11=93 R12=77 R13=93 R14=94 R15=92



Test Report

Photos of sample



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