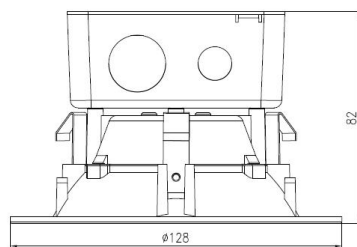


LED DOWN LIGHT (Dimmable)



72641



Size :128x108mm (5.45"x4.25")

Characteristics

Item Number	72641
Description	4" LED down light with junction box
Voltage	120V AC
Power	10W
Dimmable	Yes
LED Type	SMD
CRI	> 90
Lumens	706 lms
Color	4000K
Life time	50,000 hours
Certificate	ETL,Energy Star,FCC,Lighting Facts,LM79,LM80

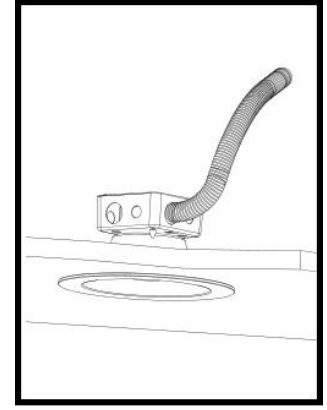
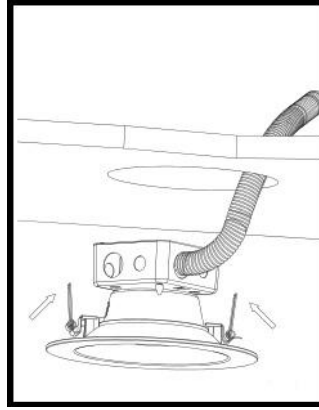
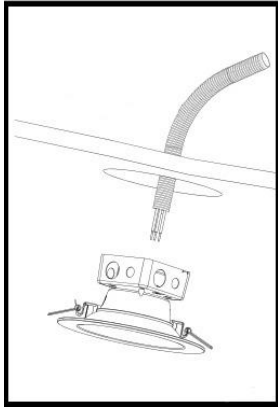
Features

- Energy efficient: save up to 80% in energy costs
- High lumen output
- Mercury-free
- Instant-on light
- For dry and damp location
- 50,000 hours lifetime
- CCT:3000K
- 5 years manufacturer warranty
- Compatible with most Lutron and Leviton dimmers

Application



Easy to Install in 4 Easy Steps:



1. Shut off power before installation , Cut a corresponding hole in the ceiling. A template is provided to assist with laying out the hole location. When running the supply wirs(s), allow an additional 18 in. of wire at each installation in order to make the electrical connections on the room side of the ceiling hole
2. Remove the Junction Box Screw(s) holding the Junction Box Cover . Pass the supply wire(s) through the appropriate knockout hole on Junction Box. Make the electrical connections to fit inside Junction Box following the ELECTRICAL CONNECTIONS. Make sure all connections are secure, tuck all wires inside Junction Box and reinstall Junction Box Cover using Junction Box Screws
3. Press the top portion of the Remodel Clips against the side of the Housing Assembly.
4. Push the Housing Assembly with the top side of the Remodel Clips through the hole until tight. Continue to push the Housing Assembly until the fixture snaps into place with the trim tight against the ceiling surface..

Packaging

Size	Carton Size	Pcs/Ctn	N.W.	G.W.
4"	54.5x35x15.5cm/21.46x13.78x6.10 inch	12	4kgs/8.82 lbs	5kgs/11.02 lbs



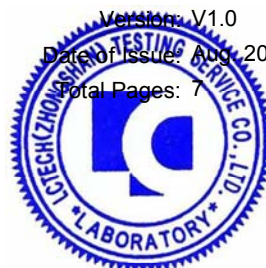
IESNA
SUSTAINING
MEMBER

Report No.: LCZP16070465

Version: V1.0

Date of Issue: Aug. 20, 2016

Total Pages: 7



Test Report of

IES LM-79-08

Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Applicant:

Morris Products Inc.
53 Carey Rd Queensbury, NY 12804

For Products:

SSL Recessed Downlights

Models:

72641

Test Date: From Jun. 07, 2016

Test Item: Total luminous flux, Luminous Efficacy, Electrical values, Chromaticity coordinates, CCT and CRI, Spectral Power Distribution.

Test Lab.: **LCTECH (Zhongshan) Testing Service Co., Ltd**

2/F., Technology and Enterprise Development Center, Guangyuan Road, Xiaolan,
Zhongshan, Guangdong, China

Tel: +86-760-22833366 Fax: +86-760-22833399

E-mail: Service@lccert.com <http://www.lccert.com>

Template No.: LC-RT-PL/LM79-08/02

Lab. Note: /

Complied by: Fish Tan

Project Engineer

Aug. 20, 2016

Fish Tan

Reviewed by: Richard Li

Technical Manager

Aug. 20, 2016

Richard Li

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1. General

1.1 Product Information

Brand Name	Morris
Product Type	SSL Recessed Downlights
Model Number	72641
Rated Inputs	110-277VAC, 60Hz
Rated Power	10W
Rated Light output	768lm
Declared CCT	4000K
Power Supply	LED Driver
LED Package, Array or Module	HL-A2835DW-S1-08-HR3
Sample Code:	16063101615
Date of Receipt Samples	2016/6/31
Note	



1.2 Standards or methods

The following standards are partly or totally used or referenced for test:

No.	Name
ANSI/NEMA/ ANSLG C78.377-2011	Specifications for the Chromaticity of Solid State Lighting Products
ANSI C82.77-2002	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment
CIE Pub. No. 13.3-1995	Method of Measuring and Specifying Color Rendering of Light Sources
CIE Pub. No. 15:2004	Colorimetry
IES LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products

1.3 Equipment list

Instrument	ID	Model name	Cal. date	Next cal. Date
AC Power supply	LC-I-923	CHP-500	2016/2/4	2017/2/3
AC Power supply	LC-I-987	APW-110N	2016/2/4	2017/2/3
Power analyzer	LC-I-928	WT210	2016/1/24	2017/1/24
Power analyzer	LC-I-954	WT210	2016/2/4	2017/2/3
Multimeter	LC-I-972	Fluke 17B	2015/8/17	2016/8/16
Photometric colorimetric electric system(2 meter sphere)	LC-I-900	SPR3000	Before use	Before use
Standard lamp	LC-I-917	24V100W	2015/10/9	2016/10/8
Luminous Flux Standard Lamp	LC-I-946	110V/200W	2015/10/17	2016/10/16
Goniophotometer(with mirror)	LC-I-902	GMS2000	2016/5/7	2017/5/7
Wireless temperature transmitter	LC-I-978	DWRF-B	2016/2/3	2017/2/2
Wireless temperature transmitter	LC-I-979	DWRF-B	2016/2/3	2017/2/2

2. Test Conduct and Method

The lamp/luminaire was operated at least 2 hours to reach stabilization and temperature equilibrium before test.

2.1 Ambient Condition

The ambient temperature in which measurements are being taken was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$; the air flow around the sample(s) being tested did not affect the performance.

2.2 Power Supply Characteristics

The AC power supply had a sinusoidal voltage wave shape at the prescribed frequency (60 Hz) such that the RMS summation of the harmonic components does not exceed 3 percent of the fundamental during operation of the test item. The voltage of AC power supply (RMS voltage) applied to the device under test was regulated to within ± 0.2 percent under load.

2.3 Seasoning and Stabilization

No seasoning was performed in accordance with IESNA LM-79-08. And before the measurement, the sample was stabilized until the light output and power variations were less than 0.5% in 30 minutes intervals (3 readings, 15 minutes apart).

2.4 Electrical Instrumentation

The calibration uncertainties of the instruments for AC voltage and current were less than 0.2 percent, and the calibration uncertainty of the AC power meter was less than 0.5 percent (95 % confidence interval, $k=2$).

2.5 Color Measurement Method

Spectral radiant flux was measured by a sphere (2 meter)-spectroradiometer system, and the color characteristics (Color rendering index, correlated color temperature, chromaticity coordinate) were calculated from these by software automatically.

2.6 Total Luminous Flux Measurement Method

Total luminous flux was measured by both sphere-spectroradiometer system. Spectral radiant flux was measured by a sphere (2 meter)-spectroradiometer system, and the total luminous flux was calculated from these by software automatically.

2.7 Luminous Intensity Distribution Measurement Method

Luminous intensity distribution was measured by a mirror-type goniophotometer (Type C) which can keep the sample in burn position when the tests conduct, and the kinds of graph were generated by software automatically.

2.8 Spatial Non-uniformity of Chromaticity

The customer did not require this measurement.

3. Test Result Summary

3.1 Electrical data

Criteria Item	Result (Sphere)	Result (Goniophotometer)
Input Voltage (V)	120.00	-
Input Frequency (Hz)	60	-
Input Current (A)	0.082	-
Total Power (W)	9.69	-
Power Factor	0.990	-

3.2 Photometric data

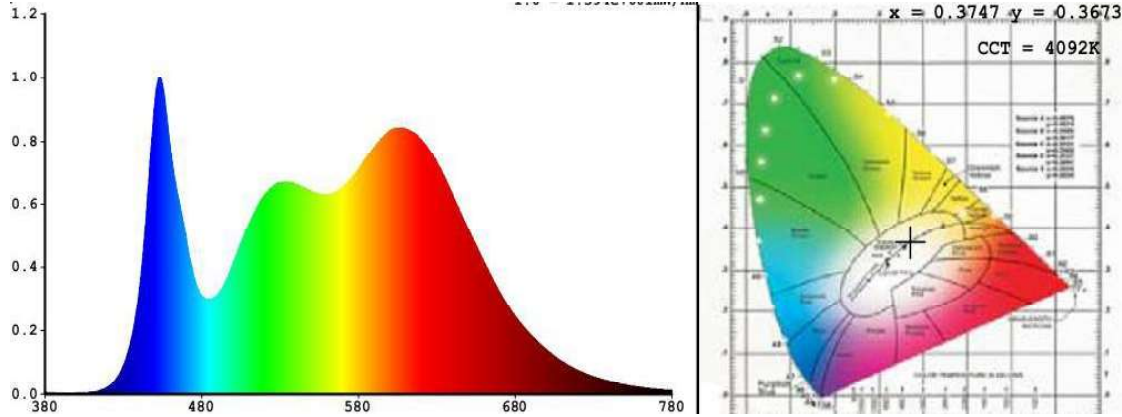
Criteria Item	Result (Sphere)	Result (Goniophotometer)
Total Lumens (Lm)	701.72	-
Luminous Efficacy (Lm/W)	72.42	-
Correlated Color Temperature(CCT) (K)	4092	-
Color Rendering Index(Ra)	93.2	-
R9	55	-
Chromaticity Coordinate (x,y)	x= 0.3747 y= 0.3673	-
Chromaticity Coordinate (u,v)	u= 0.2251 v= 0.3310	-
Chromaticity Coordinate (u',v')	u'= 0.2251 v'= 0.4965	-
Duv	-0.0028	-
Zone Lumens between 0-60°	-	-

3.3 Color Rendering Details

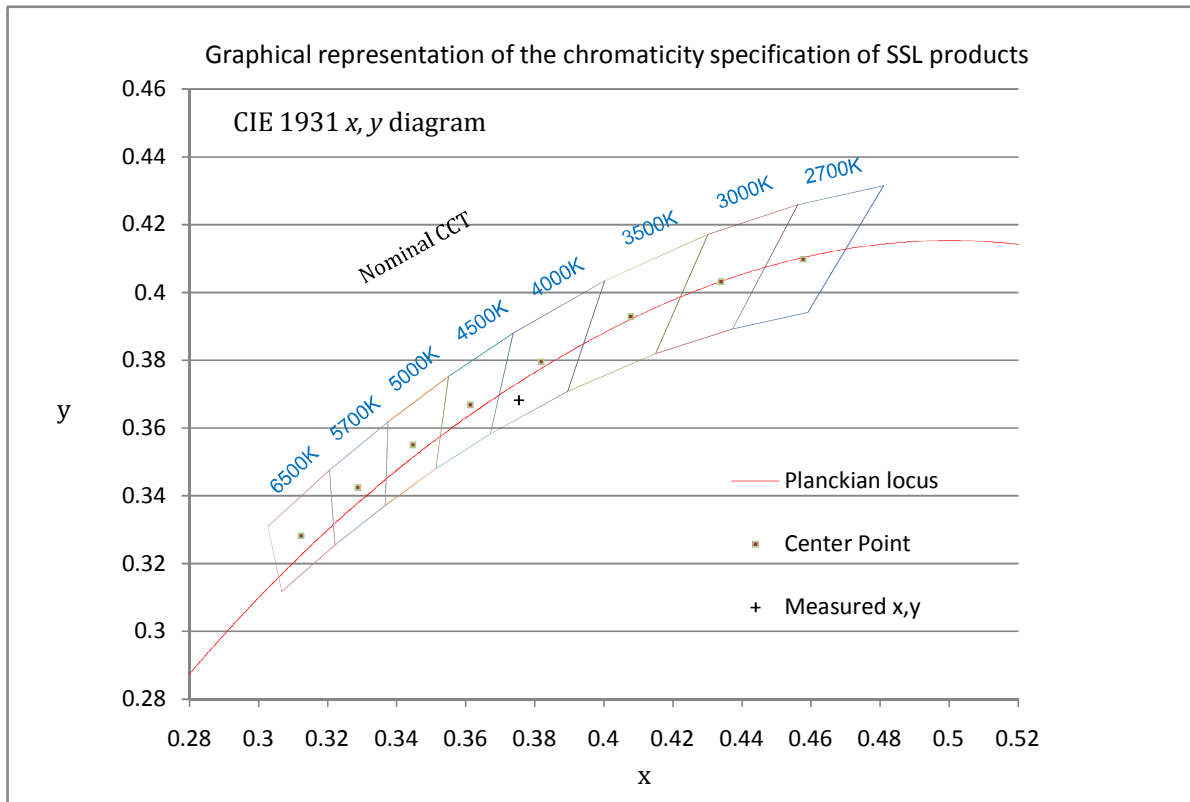
R1	R2	R3	R4	R5	R6	R7	R8
95	97	97	95	94	94	92	82
R9	R10	R11	R12	R13	R14	R15	-
55	92	95	71	97	98	91	-

4. Test Data

4.1 Spectral Distribution



4.2 ANSI Chromaticity Quadrangles Diagram



Appendix 1 Product Photo

