



Catalog Number 71609
UPC Number 60198671609
Description LED Ultra Thin Canopy Fixture
70W
Voltage: 120/208/240/277

Features

Integral Cooling Fin Releases the Heat Efficiently to Maintain the Life of LEDs and LED Driver
Corrosion Die Cast Aluminum Housing
Prismatic Polycarbonate Lens
Superior Architectural Bronze Powder Coat Finish
Cree CXA LED COB
Stainless Steel Hardware
4 Threaded Apertures - (1) Back, (3) Sides
50,000+ Hour Life Expectancy
cULus Listed for Wet Locations



General

Material: Diecast Aluminum Housing
Lens: Prismatic Polycarbonate Lens
Finish: Black Powdercoat
Lamp Type: LED COB
Photocell: Optional
Color Temperature: 5000K

Dimension Information

Length: 9-1/2"
Width: 9-1/2"
Height: 3"

See Dimensional Drawing below:

Specifications

Color Temperature: 5000K
Lumens: 5928
Temperature Rating: -40°F to 131°F
Voltage Rating: 120/208/240/277
Wattage Rating: 70W
Light Pattern: 158° Beam Angle
CRI: ≥83

Packaging

Box Qty 1

Certifications

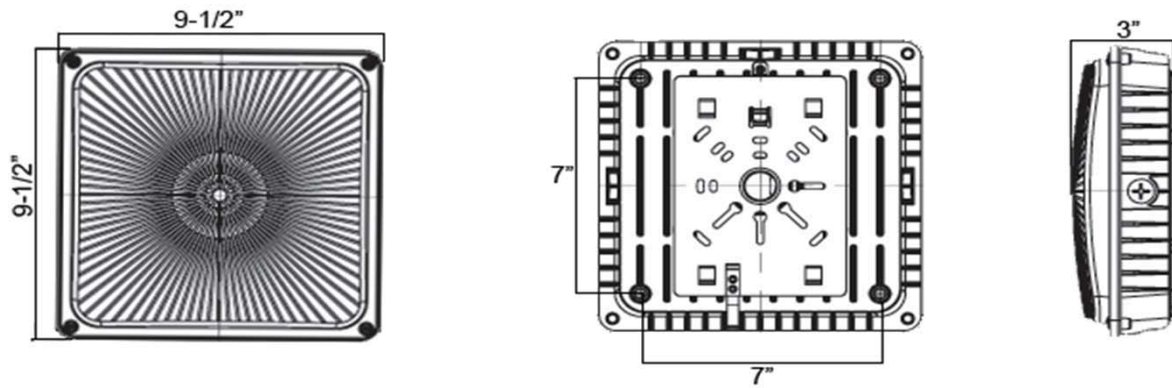
cULus Yes
DLC Yes
IP65(Nema 4X) Yes
Warranty 5 Year

www.morrisproducts.com

Morris Products 53 Carey Road, Queensbury, NY 12804

Dimensions:

71609



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IES LM-79-08

MEASUREMENT AND TEST REPORT

For

Morris Products Inc.

53 Carey Rd Queensbury, NY

Test Model: 71609

Report Type:	Electrical and Photometric tests including: Input Current, Power, Power Factor, Luminous Flux, Luminous Efficacy, CRI, CCT, Chromaticity Coordinate, Spectral Power Distribution
Test Engineer:	Daniel Duan <i>Daniel Duan</i>
Report Number:	RSZ150420523-10
Test Date:	2015-04-28
Report Date:	2015-05-06
Reviewed By:	Jeanne Han/Safety Manager <i>Jeanne Han</i>
Prepared By:	Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008
Test Facility:	Test facility was located at Pu Long Cun 69, Puxinghu Industrial Area, Tangxia Town, Dongguan, Guangdong, P.R.China.
Accreditation:	The NVLAP Lab Code is 200707-0.

STATEMENT: This test may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen). The test data was only valid for the test sample(s). This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Federal Government. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

1. Product Description

General Information:

One sample was received on 2015-04-20 and used for testing. Sample No.: RSZ150420523-S01

Model: 71609

Model Tested: 71609

Manufacturer: Morris Products Inc.

Brand Name: Morris

Product Designation: Parking Garage Luminaires

Burning Time Before Test: 0 hour(For New Products)

Rated Values:

Rated Voltage/Frequency: 100-277VAC 60Hz

Rated Power: 70 W

Nominal CCT: 5000K

2. Standards Used

- IESNA LM-79-08: Approved Method: Electrical & Photometric Measurement of Solid-state Lighting Products
- ANSI C82.77-2002: Harmonic Emission Limits – Related Power Quality Requirements for Lighting

3. Description of Test Equipment

Device	Manufacture	Model No	Serial No	Test Range	Calibration date	Calibration due date
Integrating Sphere	SENSING	SPR-600	S09008	1.5 meter	2015-03-16	2016-03-16
Spectral photometer	SENSING	SPR3000	90902027	380nm~800nm	2015-03-16	2016-03-16
Power Meter	YOKOGAWA	WT-210	91j926132	15/30/60/150/300/600 V	2015-03-05	2016-03-05
AC Power Supply	ALL Power	APW-105N	970613	0V-300V 50-400Hz	2015-03-05	2016-03-05
Standard Light Source	EVERFINE	D204	LSD090808	N/A	2014-08-05	2015-08-05
Thermal Meter	SENSING	N/A	N/A	25°C,45°C,55°C	2015-03-05	2016-03-05
DC Power Supply	ITECH	IT6154	0061 0417 6471 0010 19	0~60V	2015-03-05	2016-03-05

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

4. Test Method

Product was tested with no seasoning. All stabilization and measurements were made in compliance with IES LM-79-08. The product was operated at rated voltage or at voltage required by manufacturer. The ambient temperature of the sample was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ during measurement. And relative humidity is less than 65%.

Integrating Sphere System

The system includes AC power source, digital power meter, DC power supply, spectrophotometer, and integrating sphere. The integrating sphere system is calibrated by standard light source before measurement. The system and standard light source has been calibrated regularly and traceable to the National Primary Standards.

4 π geometry was used during measurement. The product was operated in its intended orientation in application and was recorded in this report.

The uncertainty of the light output (luminous flux) measurements is $U=2.1\%$ ($K=2$), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is $U=32\text{K}$ ($K=2$), at the 95% confidence level. The uncertainty of the CRI is $U=2.1$ ($K=2$), at the 95% confidence level.

FURNIVAL

5. Test Result

[Integrating Sphere System]

Total operating time for integrating sphere test: **1.5 hours**

Test orientation: **Downward**

Electrical Measurement

Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.06	60.0	0.5859	68.73	0.977

Photometric Measurement

Luminous Flux (lm)	Radiant Flux (W)	Efficacy (lm/W)	CCT (K)	Duv
5928.278	15.986	86.255	5286	-9.20E-04

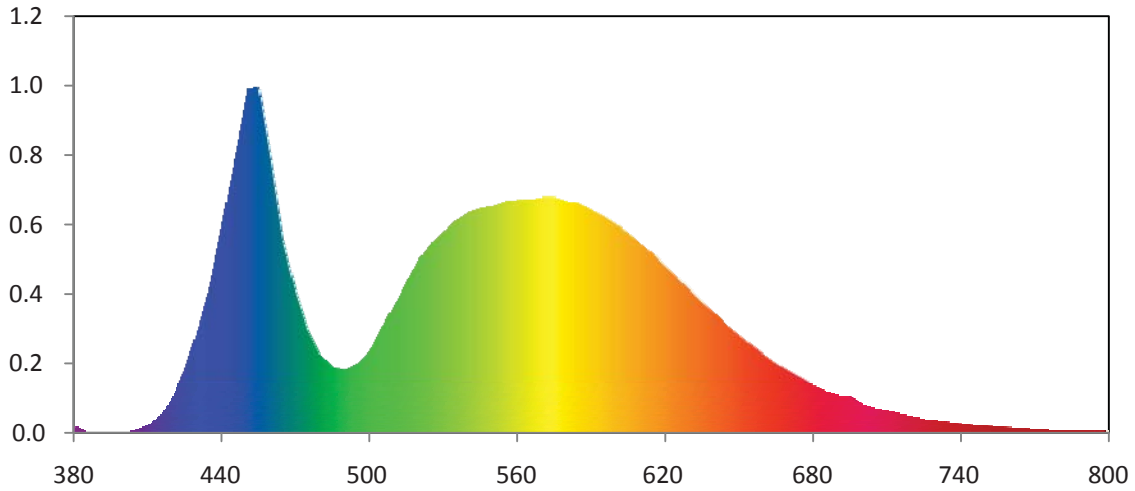
Chromaticity Coordinate

x	y	u	v	u'	v'
0.3375	0.3436	0.2094	0.3197	0.2094	0.4796

Color Rendering Index

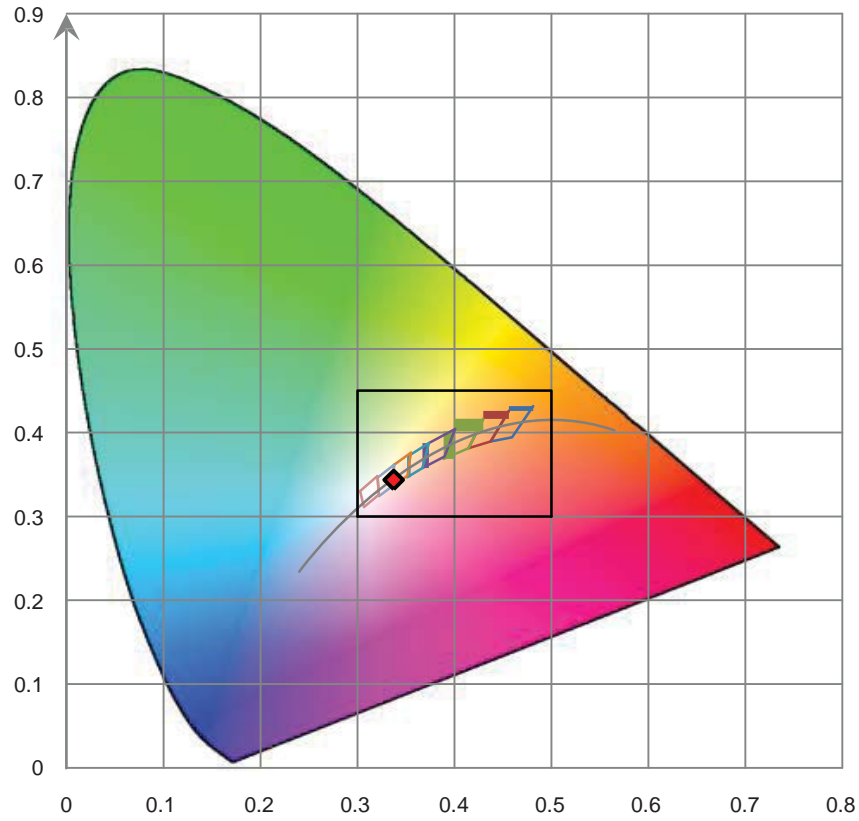
Ra			
77.1			
R1	R2	R3	R4
76	82	84	77
R5	R6	R7	R8
75	73	84	65
R9	R10	R11	R12
-5	55	73	51
R13	R14	R15	
77	90	73	

Relative Spectral Power Distribution

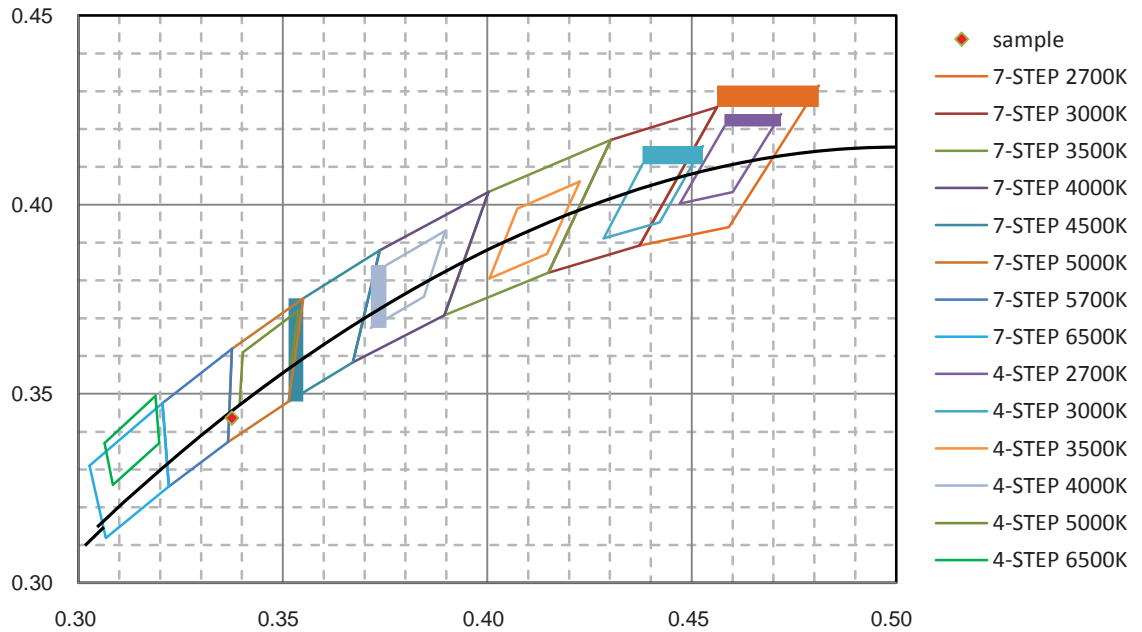


nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	1.428E-02	465	3.419E-01	550	4.038E-01	635	2.328E-01	720	3.107E-02
385	5.157E-03	470	2.504E-01	555	4.103E-01	640	2.136E-01	725	2.716E-02
390	3.534E-03	475	1.826E-01	560	4.125E-01	645	1.924E-01	730	2.397E-02
395	2.640E-03	480	1.395E-01	565	4.128E-01	650	1.745E-01	735	2.077E-02
400	3.254E-03	485	1.170E-01	570	4.172E-01	655	1.566E-01	740	1.808E-02
405	6.531E-03	490	1.127E-01	575	4.169E-01	660	1.400E-01	745	1.568E-02
410	1.617E-02	495	1.254E-01	580	4.105E-01	665	1.245E-01	750	1.406E-02
415	3.406E-02	500	1.489E-01	585	4.077E-01	670	1.111E-01	755	1.243E-02
420	6.718E-02	505	1.882E-01	590	3.952E-01	675	9.897E-02	760	1.094E-02
425	1.168E-01	510	2.302E-01	595	3.839E-01	680	8.668E-02	765	9.760E-03
430	1.825E-01	515	2.726E-01	600	3.704E-01	685	7.635E-02	770	8.673E-03
435	2.662E-01	520	3.088E-01	605	3.540E-01	690	6.961E-02	775	7.520E-03
440	3.722E-01	525	3.374E-01	610	3.361E-01	695	6.665E-02	780	6.743E-03
445	4.834E-01	530	3.598E-01	615	3.175E-01	700	5.260E-02	785	6.102E-03
450	6.092E-01	535	3.782E-01	620	2.964E-01	705	4.588E-02	790	5.403E-03
455	6.138E-01	540	3.907E-01	625	2.759E-01	710	4.097E-02	795	5.146E-03
460	4.851E-01	545	3.979E-01	630	2.543E-01	715	3.567E-02	800	4.539E-03

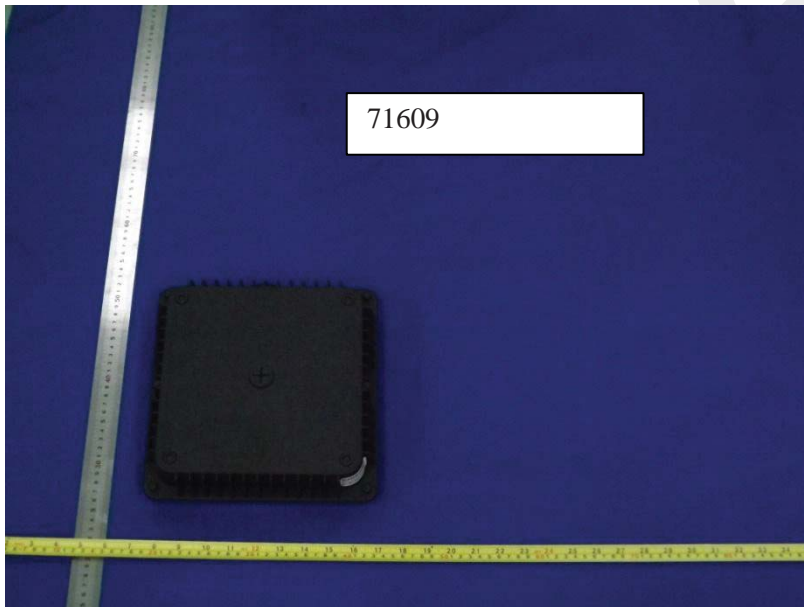
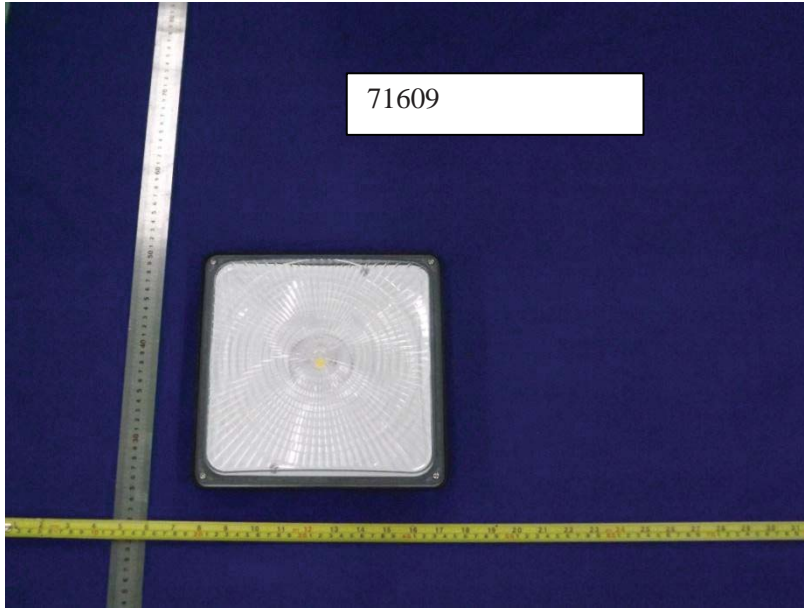
CIE 1931 x y Chromaticity Diagram



7-Step & 4-Step Chromaticity Quadrangles



6. Product Photo



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