

Catalog Number 71604

UPC Number 60198671604

Description LED Ultra Thin Canopy Fixture

45W

Voltage: 120/208/240/277

QPL ID # P89A8PQ3

Features

Intergral 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 White 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: White 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: 4149

Temperature Rating: -40°F to 131°F Voltage Rating: 120/208/240/277

Wattage Rating: 45W

Light Pattern: 158° Beam Angle

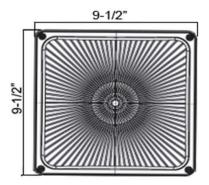
CRI: ≥83

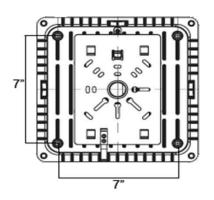
Packaging

Box Qty 1

Certifications

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











IES LM-79-08

MEASUREMENT AND TEST REPORT

For

Morris Products Inc.

53 Carey Rd Queensbury, NY 12804

Test Model: 71604

h						
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 Daniel Duan					
Report Number:	RSZ150420521-10					
Test Date:	2015-04-22					
Report Date:	2015-05-06					
Reviewed By:	Jeanne Han/Safety Manager Jeume . Ham					
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.					

Bay Area Compliance Laboratories Corp. (Shenzhen)

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1. Product Description

General Information:

One sample was received on 2015-04-20 and used for testing. Sample No.: RSZ150420521-S01 Model: 71604

Model Tested: 71604

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: 45W 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℃,45℃,55℃	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).

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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 °C±1 °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.

 4π 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=1.64% (K=2), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is U=21K (K=2), at the 95% confidence level. The uncertainty of the CRI is U=1.6 (K=2), at the 95% confidence level.



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5. Test Result

[Integrating Sphere System]

Total operating time for integrating sphere test: 1.0 hours

Test orientation: Downward

Electrical Measurement

Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	
119.99	60.0	0.3664	43.67	0.993	

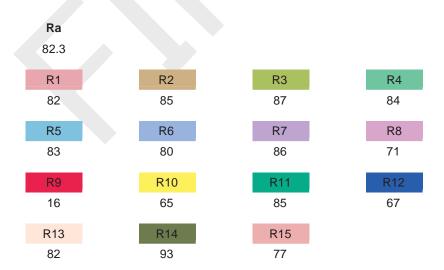
Photometric Measurement

Luminous Flux (Im)	Radiant Flux (W)	Efficacy (lm/W)	CCT (K)	Duv	
4149.603	11.037	95.022	5074	1.00E-03	

Chromaticity Coordinate

х	у	u	V	u'	V'
0.3433	0.3521	0.2100	0.3231	0.2100	0.4846

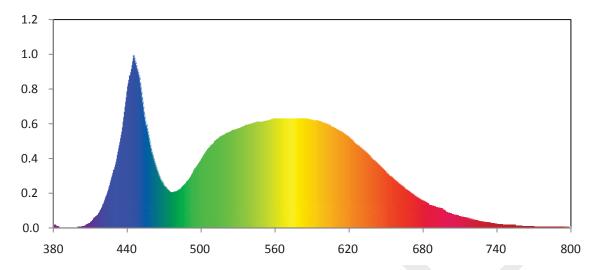
Color Rendering Index





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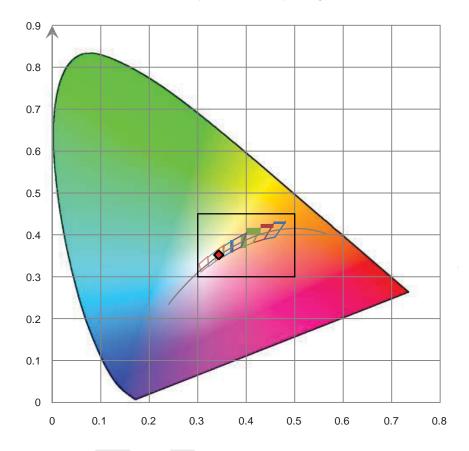
Relative Spectral Power Distribution



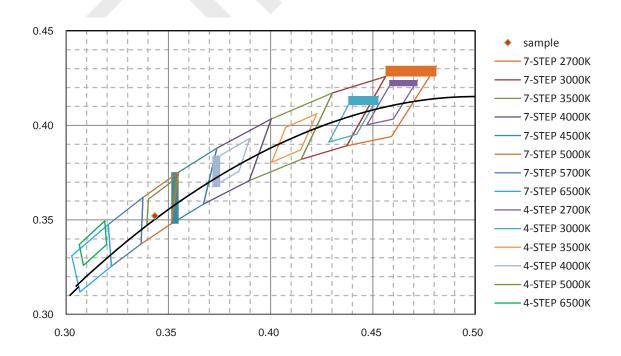
nm	mW								
380	9.441E-03	465	1.344E-01	550	2.574E-01	635	1.805E-01	720	2.184E-02
385	3.866E-03	470	1.010E-01	555	2.599E-01	640	1.657E-01	725	1.877E-02
390	2.759E-03	475	8.730E-02	560	2.643E-01	645	1.512E-01	730	1.558E-02
395	1.757E-03	480	9.017E-02	565	2.628E-01	650	1.369E-01	735	1.370E-02
400	2.629E-03	485	1.016E-01	570	2.633E-01	655	1.236E-01	740	1.167E-02
405	6.042E-03	490	1.207E-01	575	2.628E-01	660	1.106E-01	745	1.012E-02
410	1.533E-02	495	1.463E-01	580	2.639E-01	665	9.825E-02	750	8.940E-03
415	3.129E-02	500	1.693E-01	585	2.638E-01	670	8.725E-02	755	7.778E-03
420	5.806E-02	505	1.897E-01	590	2.606E-01	675	7.660E-02	760	6.825E-03
425	9.763E-02	510	2.081E-01	595	2.589E-01	680	6.719E-02	765	5.637E-03
430	1.531E-01	515	2.192E-01	600	2.530E-01	685	5.851E-02	770	5.231E-03
435	2.315E-01	520	2.284E-01	605	2.467E-01	690	5.279E-02	775	4.600E-03
440	3.410E-01	525	2.354E-01	610	2.399E-01	695	4.890E-02	780	3.973E-03
445	4.173E-01	530	2.413E-01	615	2.305E-01	700	3.842E-02	785	3.504E-03
450	3.641E-01	535	2.464E-01	620	2.199E-01	705	3.340E-02	790	3.220E-03
455	2.556E-01	540	2.506E-01	625	2.069E-01	710	2.906E-02	795	2.962E-03
460	1.806E-01	545	2.557E-01	630	1.939E-01	715	2.488E-02	800	2.587E-03

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CIE 1931 x y Chromaticity Diagram

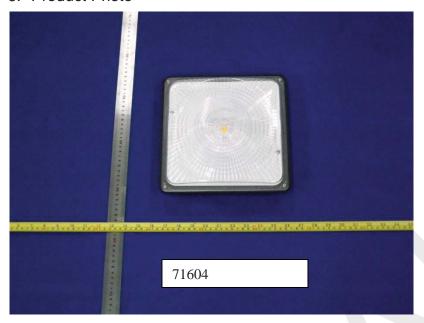


7-Step & 4-Step Chromaticity Quadrangles



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6. Product Photo





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