



In Situ Temperature Measurement Test Report

For

ASMART LIGHT CO., LTD

(Brand Name: ASMART)

506 N GARFIELD AVE SUITE#210 ALHAMBRA CA 91801

Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted Area Luminaires

Model name(s): AST-MWP03C-20D4BYFDA1-abeg

Remark: The letter "a" can be 2 letters represent lamp colors, "BH = Black, WH=White, BR=Brown or Customized". The letter "b" can be "P=Photocontrol" or "blank". The letter "e" can be two digits to represent CCT, 30=3000K, 40=4000K, 50=5000K. The letter "g" can be "A" for Auxiliary output 12V or empty for no Auxiliary output 12V.

Representative (Tested) Model: AST-MWP03C-20D4BYFDA1-ab30g(Tested at 0% CCT Setting)

Model Different: N/A

Test & Report By: Review By:

Engineer: Grace Li

Date: July 6, 2020

Grace Li

Manager: Jason Luo

Jason Luo





Table of Contents

1 Ge	eneral	3
	1.1 Product Information	3
	1.2 Standards or methods	4
2 Te	1.3 Equipment list	
	2.1 Ambient Condition	4
	2.2 Temperature Stabilization	4
	2.3 Thermocouples	4
3 Te	2.4 Thermocouples contact	
	3.1 Test Data:	6
	3.2 Test Photo:	6
	3.3 Test Data of LED Driver:	8
	3.4 Test Photo of LED Driver:	8





1 General

1.1 Product Information

Brand Name	ASMART
Model Number	AST-MWP03C-20D4BYFDA1-abeg
Luminaire Type	Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted
	Area Luminaires
Nominal Power	20W
Rated Initial Lamp Lumen	
Declared CCT	3000K,4000K,5000K(Color tunable)
LED Manufacturer	Lumileds Holding B.V.
LED Model	L128-3080RA35003H1
	L128-5080RA35000H1
LED Driver Manufacturer	Shenzhen Daermay Electronics Technology Co., Ltd
LED Driver Model	HB-LPG020G-52
Sample Receipt Date	2020-07-01
Sample Number	BLC2007001E-B1

Photo









1.2 Standards or methods

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

No.	Name
ANSI/UL 1598:2008	Luminaires

1.3 Equipment list

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
BL047	Power Meter	2020-06-29	2021-06-28
BL002	Temperature Tester	2020-06-17	2021-06-16

2 Test conducted and method

2.1 Ambient Condition

Test was conducted in an ambient temperature of 25 ± 5 °C. Ambient temperature variations above or below 25 °C was subtracted from or added to temperatures recorded at points on the luminaire.

The ambient temperature was measured by a thermocouple which was immersed in 15ml of mineral oil in a glass container.

2.2 Temperature Stabilization

Temperatures were measured after they have stabilized when the test has been running for a minimum of 7.5 hours, or the test has been running for a minimum of 3 hours and three successive reading taken at 15 minutes intervals are with 1° C of another and are not rising.

2.3 Thermocouples

Type J thermocouple was used for temperature measurement. The thermocouple was 0.05mm2(30AWG), and complied with the requirements specified in ASTM MNL 12 and limits of error specified in NIST ITS 90 and ISA MC96.1.

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01
Unit 401, No. 309 Xinxin Seven Road, Zengcheng District,
Guangzhou, People's Republic of China. info@bellingtest.com

Report Format Number BL-FM-SA-012





2.4 Thermocouples contact

Thermocouples were in contact with the TMP LED location described in LM-80 test report. In order to gain the maximum temperature, if appropriate, more than one thermocouple were contact in these locations. For details information, please refer to clause 3.3 for the photo of thermocouple contact.





3 Test Results

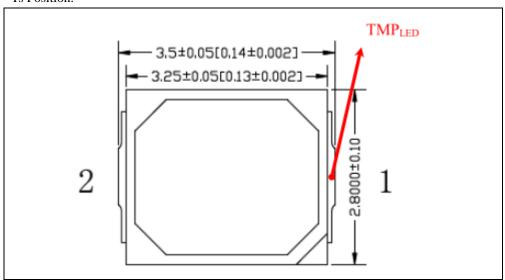
Test date	,	2020-07-02	Test Ambient 25.1 ℃			
Samp	le No.		LED Package Model			
DI C2007	7001E D	1	L128-3080RA35003H1			
BLC2007	OUIE-B	I	L128-5080RA35000H1			
LED driver of Each La	mp	Output voltage	ge V Measured LED working current (Max.) m			
1	1 43.4				135.1	

3.1 Test Data:

Input	Vol.	120.0V	Input Curr	ent	0.1	621A	Input Wa	attage	19.30	Temperature stabilization time:		500 min	
No.	Ter	mperatur	e (°C)	No.		Temperature (°C))	No.	o. Temperat		ture (°C)
	Magai		Corrected			Mac	ouro d	Corre	ected			Manageman	Corrected
	Measu	irea	at 25°C			Measured		at 2	5°C		Measured		at 25°C
1	47.3	4	7.2	2		46.5		46.4					
The h	ighest in-	situ mea	sured temp	eratu	ıre L	ED is 4	17.2°C						

3.2 Test Photo:

Ts Position:

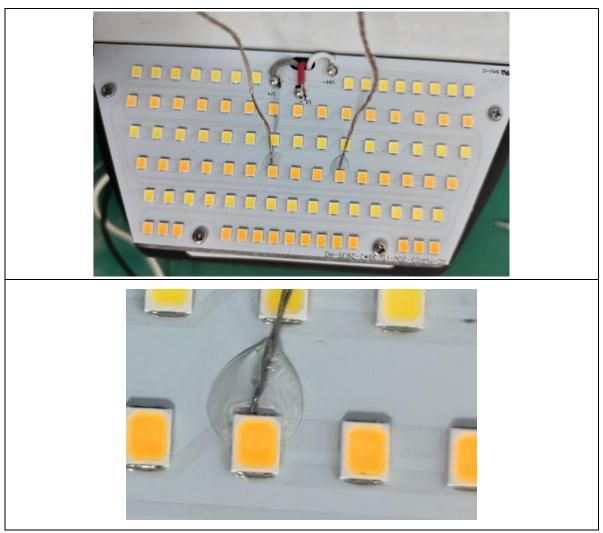


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Thermocouple Location on Temperature Measurement Point (TMP):



Results

Time (t) at which to estimate lumen maintenance (hours):	36,000
Lumen maintenance at time (t) (%):	92.88%
Reported L90 (hours):	51,000





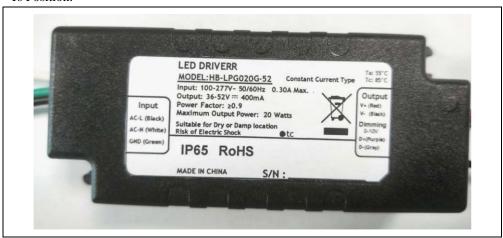


3.3 Test Data of LED Driver:

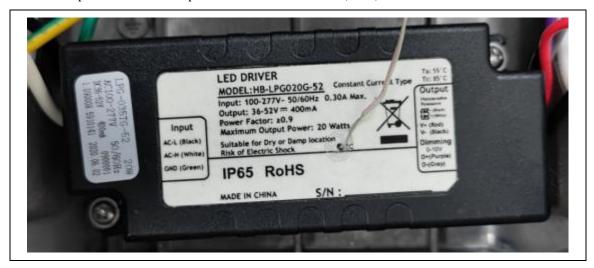
Input	Vol.	120.0V	Input Cu	rrent	0.1621A	Input W	/attage	19.30W	Temperature stabilization time:	500 min
No		Measu	red TC Te	emper	ature (°C)		Temperature Limited of Life ≥ 50000 hours			
INO	Measured Corrected at 25°C		25°C							
1	44.7 44.6						70			

3.4 Test Photo of LED Driver:

Ts Position:



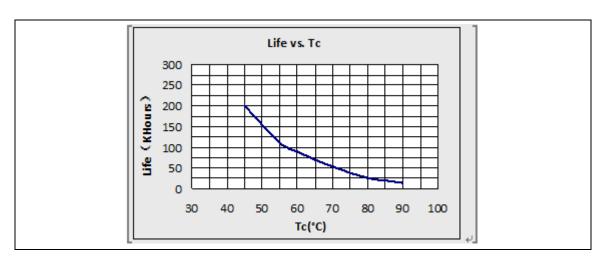
Thermocouple Location on Temperature Measurement Point (TMP):



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