



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-30D4BYFDA1-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-30D4BYFDA1-ab30g(Tested at 0% CCT Setting)

Model Different: N/A

Test & Report By:

Grace Li

Engineer: Grace Li Date: July 6, 2020

Review By:

Jason Luo

Manager: Jason Luo





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1 General

1.1 Product Information

Brand Name	ASMART
Model Number	AST-MWP03C-30D4BYFDA1-abeg
Luminaire Type	Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted
	Area Luminaires
Nominal Power	30W
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-LPG030G-52
Sample Receipt Date	2020-07-01
Sample Number	BLC2007001E-C1
Ph	ioto





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° 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.





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

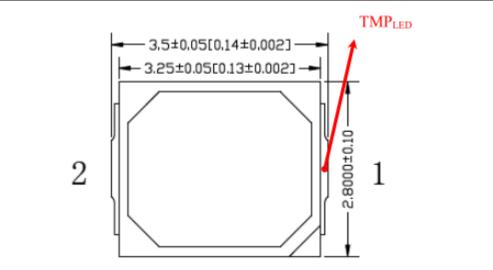
Test date	,	2020-07-02	Т	est Ambient	25.1 ℃
Samp	le No.			LED Pack	age Model
BLC2007	2001E C	1	L128-3080RA35003H1		
BLC2007	1	L128-5080RA35000H1			
LED driver of Each La	mp	Output voltage	e V	Measured LED w	orking current (Max.) mA
1		43.0			145.2

3.1 Test Data:

Input	Vol.	120.0\	/ Input Cur	rent	0.2	446A	Input W	attage	29.17	W	Temperature stabilization time	500 min
No.	Т	emperat	ture (°C)	No.	o. Tempera			ture (°C)) No.		Tempera	ture (°C)
	Меа	sured	Corrected			Measured	Corre	ected		Measured	Corrected	
	wica	Surcu	at 25°C			IVIC		at 2	5°C		Measurea	at 25°C
1	49.6		49.5	2		48.3		48.2				
The h	ighest i	n-situ m	easured temp	eratu	ure L	ED is 4	19.5°C				·	

3.2 Test Photo:

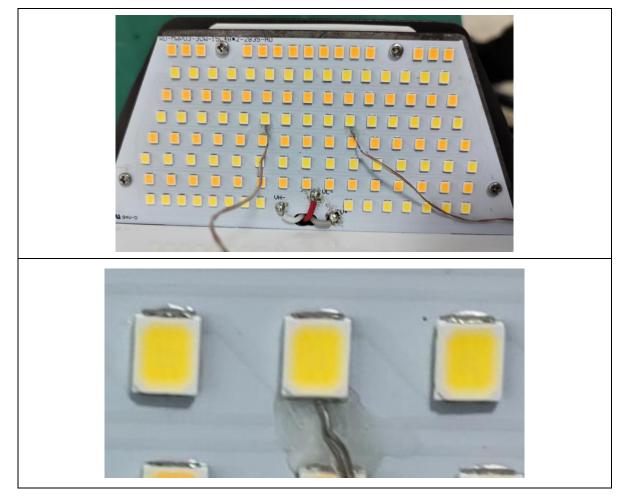








Thermocouple Location on Temperature Measurement Point (TMP):



Results

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





Report No.: BLC2007001E-C1

3.3 Test Data of LED Driver:

Input	Vol.	120.0V	Input Cu	irrent	0.2446A	Input W	/attage	29.17W	Temperature stabilization time:	500 min
No		Measu	red TC T	empera	ature (°C)		Tem	perature Lir	mited of Life \ge 5000	0 hours
INU		Measure	d	Co	orrected at 2	25°C				
1		46.2			46.1				70	

3.4 Test Photo of LED Driver:

Ts Position:

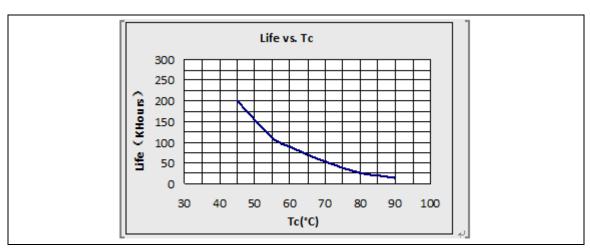
Input: 100-E1:HB-LPG030G-52 Constant Current Type Tr: 55 (T: 85 (T)) Input: 100-2777 - 50/60Hz 0. 50A Max. Utput: Ut		TC: 85°C Output V= (Red) V= (Red) Dimming 0-10° D=(Purple)	MODEL:HB-LPG030G- Input: 100-277V- 50/60HX Output: 36-52V = 600mA Power Factor: 20.9 MaxImum Output Power: Suitable for Dry or Damp loc Risk of Electric Shock	Input AC-L (Black) AC-N (White) GHD (Green)	
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Thermocouple Location on Temperature Measurement Point (TMP):

3 CW 100-217V 50/50H 5-329 60m 990001	Input AC-L (Block) AC-White)	LED DRIVER <u>MODEL:HB-LPG030G-52</u> Constant Cur Input: 100-277V - 50/80Hz 0.50A Max. Using to: 36-52V m 600mA Power: 30-9 Maximum or curl Power: 30 Watts Suitable for Dry or Dang - sation Risk of Electric Shock TC	Cutput Sector	
SH3	SAID (Green)	IP65 RoHS	Driffugal	







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