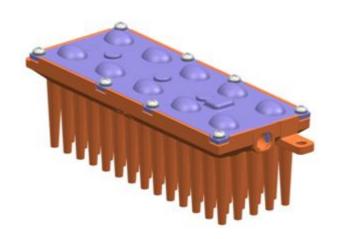
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LED Module

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SPECIFICATION



LED Module for Modular Platform Series		
Model Name	LED Platform Module with Fin	
Туре	CRI min. 70, 5000K, Flux Rank 3, Type Ⅱ-M, 351Z PKG	
Parts No.	SL-P7R2E32MZWW	

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REVISION HISTORY OF SPECIFICATION

REV. NUM	REVISION	PAGE	DATE	TRACED	APPROVED
1	The First specification established.	1~9	2014.12.10	_	S.A. Joo
2	Forward Voltage, Vf Changed	7	2015.03.03	-	S.A. Joo

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CONTENTS OF SPECIFICATION

1.	APPLICATION	4
2.	FUNDAMENTAL SPECIFICATIONS OF MODULE	6
3.	PARTS SPECIFICATIONS	7
4.	APPEARANCE AND STRUCTURE	8
5	PACKING SPECIFICATION	9

This is a product specification of SL-P7R2E32MZWW, one of SL-Puv2Ewaabcc. Please refer to relevant General and Special Application Notes for thermal, optical, electrical, mechanical design and reliability information.

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1. APPLICATION

Platform LED Module is designed as a core component in Modular Platform Engine Series for street light and flood light application. This document especially specifies Platform LED Module with Fin, generally recommended for luminaires with insufficient thermal management by the fixture itself.

1-1 Modular Platform Modules.

There are three different types of heat sink designs for Platform LED Module, intended for thermal management either by engine or by fixture.

This document especially specifies Platform LED Module with Fin for thermal management by Module or Engine itself.



(a) Module with Fin
[Thermal management by Module/Engine]



(b) Module without Fin [Thermal management by Fixture]

1-2 Modular Platform Engine Series

Typical operating current for one module is set at 700mA, which allows lumen output increment by 2100lm(nominal value) depending on the number of LED modules.

1-2-1 Lumen Packages with LED Driver

Power Consumption (Engine, Nominal)	Modules (ea)	Driver Output Channels (ea)	Operating Current (mA)	Lumen Output (Im)
25W	1	1	700	2100
50W	2	1	700	4200
75W	3	1	700	6300
100W	4	2	700	8400
150W	6	2	700	12600

^{*} This Module is recommended using a Isolated PSU.

1-2-2 Current Distribution across Modules

Current per module can vary depending on the Vf distribution of modules in parallel, deviating from the nominal operating current(700mA). The Vf distribution of modules is tightly controlled to achieve uniform driving currents.

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1-2-3 Optic Solutions

Application	Light Distribution	Solutions	Material
	IESNA Type I	Medium(1)	PC
	IESNA Type II	Short(1), Medium(1), Medium(2)	PC
Street Light	IESNA Type III	Medium(1)	PC
	IESNA Type IV	Medium(1)	PC
	IESNA Type V	Short(1)	PC
Flood Light	Medium	Batwing(BA85)	PC

* BA : Beam Angle, PC : Polycarbonate

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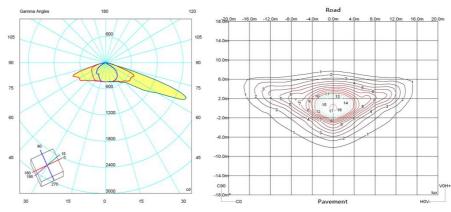
2. FUNDAMENTAL SPECIFICATIONS OF MODULE

N	o. Al	RTICLE	SPECIFICATIONS					
	Photor	netric Specification of	on of Platform LED Module @700mA (stabilized at Tc~65℃)					
	CCT	Article	Symbol	MIN	TYP	MAX	Unit	Equipments
		Luminous Flux	LF	1950	2100	_	lm	Goniometer
	5000K	Color Temperature	CCT	4650	5000	5300	K	Integrating Sphere
		Color Rendering Index	CRI	70	_	_	Ra	Integrating Sphere

^{*} Typical values are not necessarily the same as the nominal values.

Light Distribution Profile : Type II Medium(1) with Optimized Illuminance Uniformity

2-1



- * The isolux diagram is drawn at the luminaire height of 5m.
- * IES files(in IESNA or CIE format) are available with Optical Application Notes.

	in the second of			
2-2	Dimension	· LED Module with Fin: 150(L)×50(W)×45.02(H) mm		
2-3	Weight	 LED Lighting Module : {0.28kg ± 0.03kg} * 12ea Total Weight (including packing box) : 4.8kg ± 0.5kg/1box 		
2-4	Operating Temperature	Case Temperature : +10 °C ~ +80 °C (Tc ~ 65 °C at Ta ~ 25 °C) Tc point		
2-5	Storage Temperature	·-30° ~ +70° (Tc) ※ Ambient temperature without operation		
2-6	Dust-proof Water-proof	IP66 for CE Marking Damp Location for UL Marking		

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No.	ARTICLE	SPECIFICATIONS						
	Electrical Specification	tion of Platform LED Module (stabilized at Tc~65℃)						
	Article	Symbol	MIN	TYP	MAX	Unit	Remarks	
	Power Consumption	Р	-	21	25	W	30V x 0.7A, module only	
	DC Forward Current	I	-	700	700	mA	per 1 Module [700mA /PKG 1EA,TYP.]	
	Forward Voltage	Vf	26.0	30.0	33.0	V	per 1 Module [3.0V/PKG 1EA, TYP.] 10 LEDs in Series	
	Type Classification	· Built-in module						
2-7	Eye Protection	· Risk Group 2						
2-1	Working Voltage for Insulation	· 50V						
The power consumption for a specific module is distribution across the modules in parallel connect means the highest limit in any operating condition					nnection	endent . The i	on the operating voltage maximum operating current	
	* Typical and Maxim	um Opera	ting Cur	rent may	/ have =	±5% To	olerance	
	* Voltage difference between modules are tightly controlled to be less than 1.0V so that the maximum current of any module can be limited to 700mA. Voltage bins of modules will be designated on the module label and box label.							
	* Safety and wiring information will be described in Electrical Application Notes.							
	We recommend us equipped surge pro	sers to attach the surge protector to a PSU or to use a PSU that of otect circuit suitable for the user's atmosphere condition.						

3. PARTS SPECIFICATIONS

No.	ARTICLE	SPECIFICATIONS
3-1	Lens Cover Screw	Material : Stainless Steel with Teflon WasherLocation : between the array lens and heat sink
3-2	Array Lens Cover	 Material: Polycarbonate Thickness: 2.0 mm Lens Type: Type II -M(1) UL-94 Flammability: V-2 * Protective Equipment in Luminaries needs to prevent flaming drips.
3-3	Seal Rubber	Material : Molded Silicone
3-4	LED Board	 LED: Ceramic PKG, CCT 5000K, CRI min. 70 Material: MCPCB, Aluminum Thickness: 1.6 mm Stainless Steel Screws: 3ea
3-5	Side Inlet Harness	Material : Molded PVC coated with Sealant Silicone, 105℃ rating Wires : 24 AWG, 105℃ rating Length(wires) : 550 mm
3-6	Heat Sink (with Fin)	Material : Die-cast Aluminium Thermal Pad between the PCB and Heat Sink

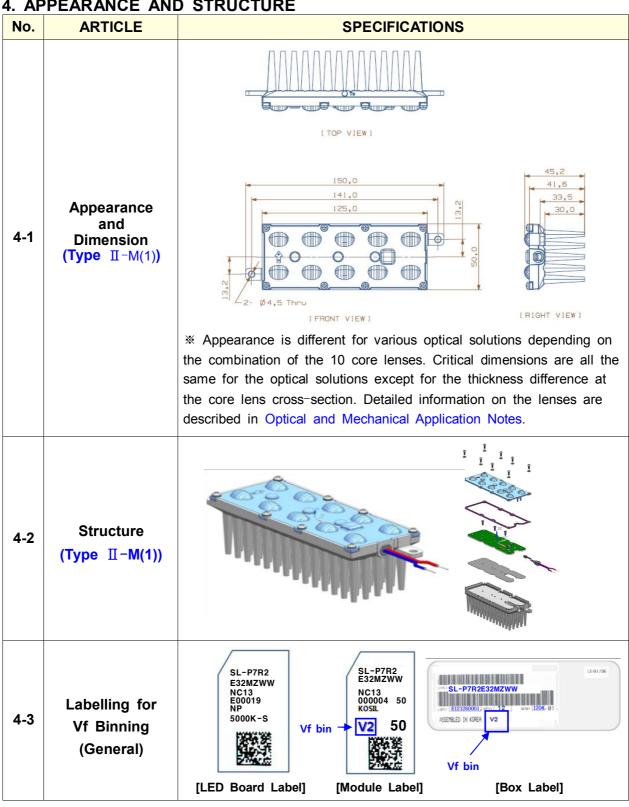
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4. APPEARANCE AND STRUCTURE



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5. PACKING SPECIFICATION

5-1 Packing Method

5-1-1 Inner Box: 6 modules of the same Vf bin in one inner box

6 PCs/Inner Box



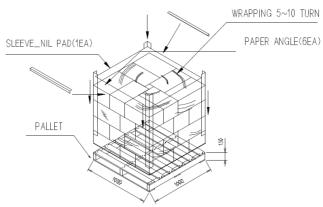
5-1-2 Outer Box: 12 modules on 2 stacks of inner boxes in one outer box

2 Stacks of Inner Boxes (419 x 240 x 189)





5-2 Pallet: 32 boxes(384 modules) on one pallet



* Two stacks of pallets are allowed.