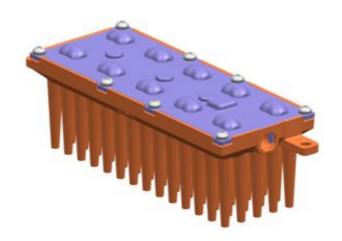
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SPECIFICATION



LED Module for Modular Platform Series			
Model Name	Model Name LED Platform Module with Fin		
Turna	CRI min. 70, 4000K, Flux Rank 3,		
Type	Type Ⅱ -M(2), 351Z PKG		
Parts No.	SL-P7T2E37MZWW		

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REVISION HISTORY OF SPECIFICATION

REV. NUM	REVISION	PAGE	DATE	TRACED	APPROVED
1	The First specification established.	1~9	2014.12.05	-	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	a

This is a product specification of SL-P7T2E37MZWW, 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 Modules or Engines themselves.



(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
Street Light	IESNA Type II	Short(1), Medium(1), Medium(2)	PC
	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. FU	INDAM	IENTAL SP	PECIFICA	TIONS	OF M	ODULE	=		
No.	AF	RTICLE	SPECIFICATIONS						
	Photor	netric Specifi	cation of	Platform	LED Mo	odule @	700mA(s	stabili	zed at Tc~65℃)
	CCT	Artio	cle	Symbol	MIN	TYP	MAX	Unit	Equipments
		Luminou	ıs Flux	LF	1950	2100	_	lm	Goniometer
	4000K	Color Tem	perature	CCT	3650	3900	4200	K	Integrating Sphere
		Color Rende	ring Index	CRI	70	-	1	Ra	Integrating Sphere
	ж Туן	oical values a	re not nece	essarily tl	ne same	as the	nominal	value	S.
	Liaht I	Distribution F	Profile : Tv	pe II Me	dium(2)	with Or	otimized	Illumi	nance Uniformity
	_	Samma Angles	180	120	20.0m -16.0m	-12.0m -8.0m	-4.0m 0.0m	4.0m	8.0m 12.0m 16.0m 20.0m
0.4	105		200	105	12.0m				
2-1	90			90	8.0m	1-	2		1
			7200		4.0m		3 12 13 14 1	5 5	2
	75			75	0.0m	3 5 6	8 11 + 19	18 8	
	60	60 60 00 10 10 10 10 10 10 10 10 10 10 10 10							
	600								
	45 8.5m								
	C90 C45km -12 C00 HeV								
★ The isolux diagram is drawn at the luminaire height of 5m.									
	* IES files(in IESNA or CIE format) are available with Optical Application Notes.				ation Notes.				
2-2	Dii	mension	• 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 								
				<u> </u>					at Ta ~ 25℃)
			0000 10	pc.a.ui					
2-4		perating nperature	there were the same the same and the same an						
			To point						
			Recommended Tc points as a function of number of modules are described in Thermal Application Notes.						
						μμιισαιίΟ	11 110168.		
2-5		Storage	30℃ ~	`	,				
	ien	nperature	* Ambie	•		ithout op	eration		
2-6		st-proof	· IP66 for		•				
	vva	ter-proof	· Damp L	ocation f	or UL M	arking			

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No	o. ARTICLE	SPECIFICATIONS					
	Electrical Specification 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							
	Working Voltage for Insulation • 50V						
	distribution across	* The power consumption for a specific module is dependent on the operating voltage distribution across the modules in parallel connection. The maximum operating current means the highest limit in any operating condition.					
	* Typical and Maxim	st Typical and Maximum Operating Current may have $\pm 5\%$ Tolerance					
	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	* Safety and wiring information will be described in Electrical Application Notes.					
	We recommend users to attach the surge protector to a PSU or to use a PSU that equipped surge protect circuit suitable for the user's atmosphere condition.						

3. PARTS SPECIFICATIONS

No.	ARTICLE	SPECIFICATIONS
3-1	Lens Cover Screw	Material : Stainless Steel with Teflon Washer Location : between the array lens and heat sink
3-2	Array Lens Cover	 Material: Polycarbonate Thickness: 2.0 mm Lens Type: Type II -M(2) 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 4000K, 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°C rating Wires : 24 AWG, 105°C rating Length(wires) : 550 mm
3-6	Heat Sink (with Fin)	Material : Die-cast Aluminium Thermal Pad between the PCB and Heat Sink

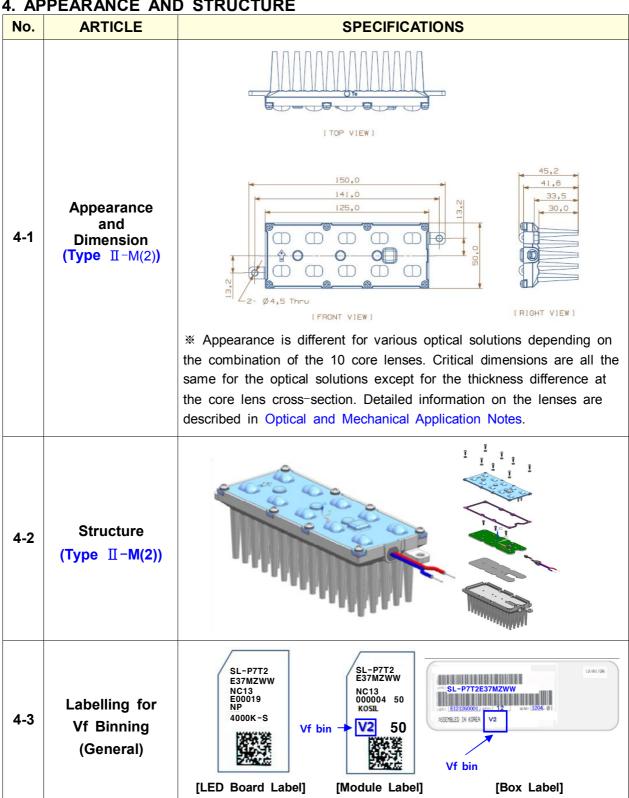
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4. APPEARANCE AND STRUCTURE



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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

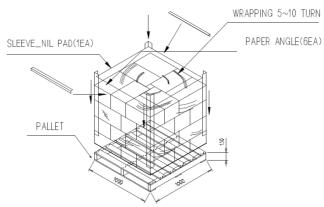


5-1-2 Outer Box: 12 modules on 2 stacks of inner boxes in one outer box

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.