

Ambient Lighting Module (FPL)

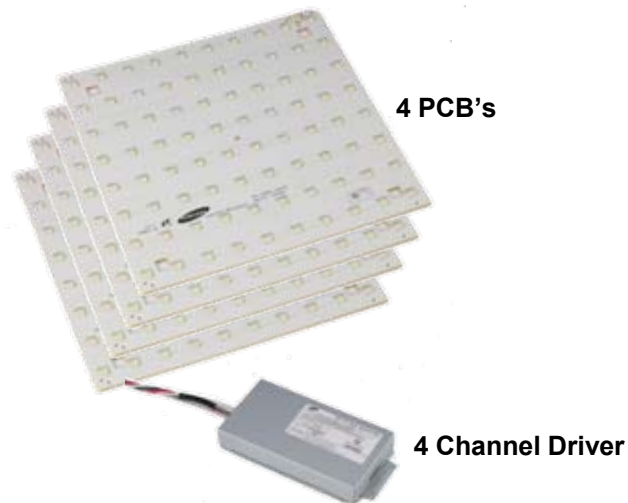


Complete LED Solutions

SAMSUNG


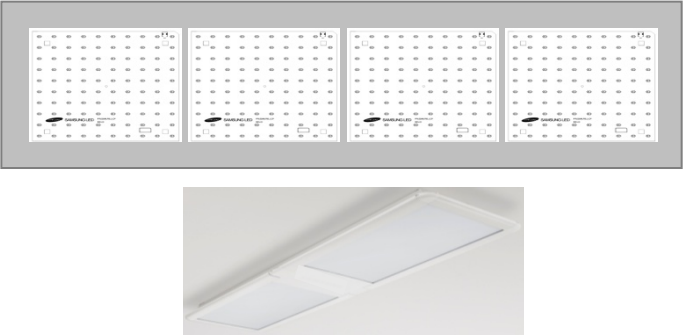
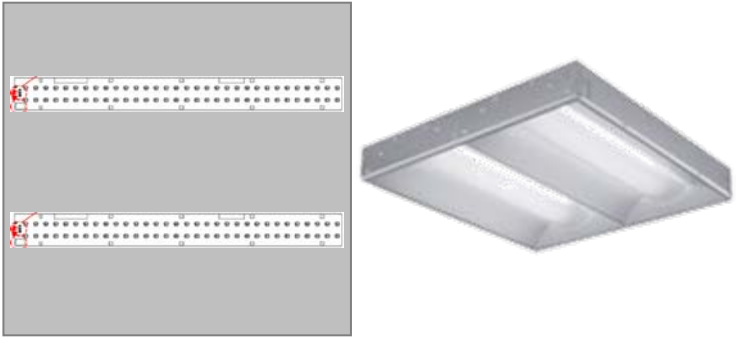

Advantages of Ambient Light Engine by Samsung LED

- Based on Middle Power LED
 - Smooth appearance
 - From state-of-the-art LED TV technology
 - Economies of scale – No 1 M/S in TV backlight
- Flexibility from Modular Design
 - Can mix and match for 2'x2', 1'x4', 2'x4' lighting fixtures
- Tight Color Tolerance
 - Color bin mixing technology – Economic solution for tight color tolerance requirement



Ambient Light Engine

PRODUCT LINE-UP

2x2 Tile Type	1x4 Tile Type
 <p>The 2x2 tile type consists of four square LED panels arranged in a 2x2 grid. Each panel is shown with a top-down view of the LED array and a perspective view of the recessed fixture.</p>	 <p>The 1x4 tile type consists of four rectangular LED panels arranged in a 1x4 row. Each panel is shown with a top-down view of the LED array and a perspective view of the recessed fixture.</p>
2x2 Linear Type	2x4 Linear Type
 <p>The 2x2 linear type consists of two rectangular LED panels arranged in a 2x2 grid. Each panel is shown with a top-down view of the LED array and a perspective view of the recessed fixture.</p>	 <p>The 2x4 linear type consists of two long rectangular LED panels arranged in a 2x4 grid. Each panel is shown with a top-down view of the LED array and a perspective view of the recessed fixture.</p>

Ambient Light Engine

■ Product Configuration

- Engines consist of LED module and driver

	LED Module	Driver	Harness Cable
Ambient Light Engine			



Customer's Luminaire	
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2x2 Tile Type - (1)



1 Module Dimension : 259x259 [mm²]

Product	PSU		Luminous Flux [lm]	Efficacy [lm/W]	CCT [K]	CRI [Ra]	Input Vol. [Vac]	Dimming	Certi.	Status
Module-64X (5252 Gen1B)	45W	24V*1.6A (4-ch)	3900	86	4000	80	220~240	-	CE, CB C-tik	MP
Module-64Y (5252 Gen2)	45W	24V*1.55A (4-ch)	4180	93	3500	80	120~277	0 to 10V**	UL	MP
Module-80A (5252 Gen1B)	50W	30.5V*1.4A (4-ch)	4000	80	3500	80	100~277	0 to 10V**	cUL CE*	MP
			4200	84	4000					
			4500	90	5000					
	75W	30.5V*2.1A (4-ch)	6050	80	4000	80	100~277	None	KC	MP
							0 to 10V**	CE*	June	

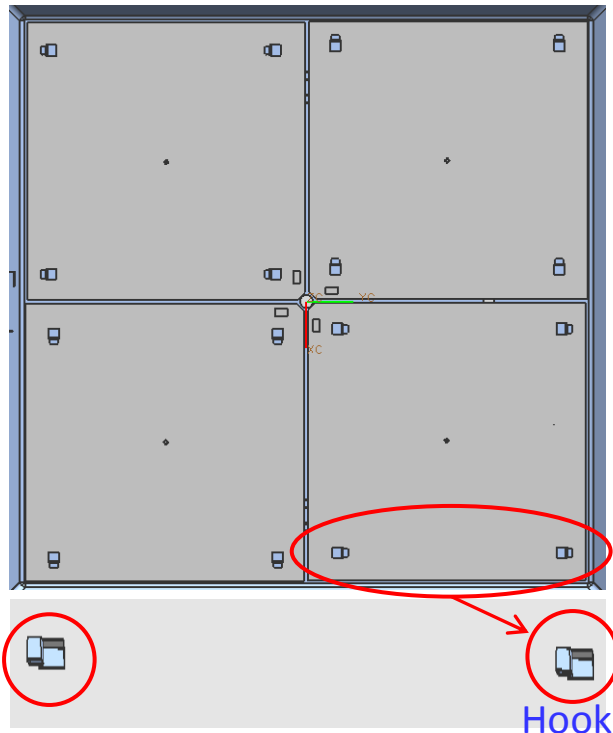
*By the end of May

** Auxiliary 12Vdc Output Included

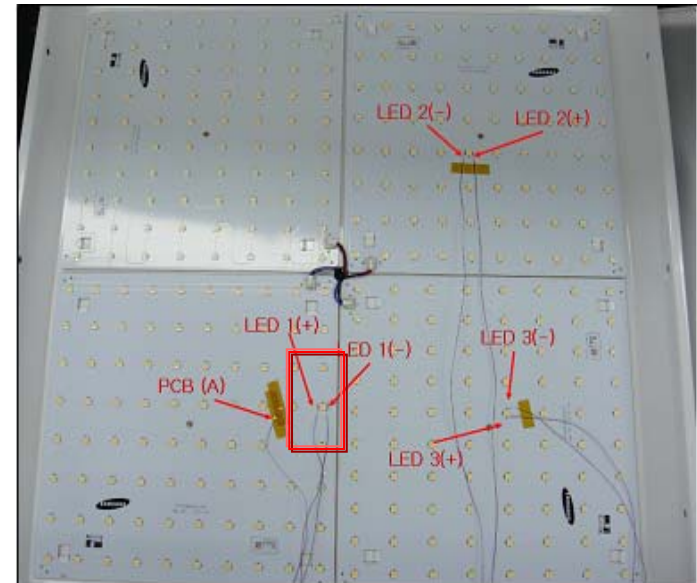
2x2 Tile Type - (2)

Product	PSU		Luminous Flux [lm]	Efficacy [lm/W]	CCT [K]	CRI [Ra]	Input Vol. [Vac]	Dimming	Certi.	Status
Module-80B (5252 Gen1B)	50W	49V*0.9A (2-ch)	4240	89	5000 6500	80	90~240	-	CE,CB CCC	MP
Module-100 (5252 Gen1B)	100W	30V*2.8A (4-ch)	7600 8200	76 90	3500 4000	80	100~277	0 to 10V	CE	MP

Fixation with Fixture

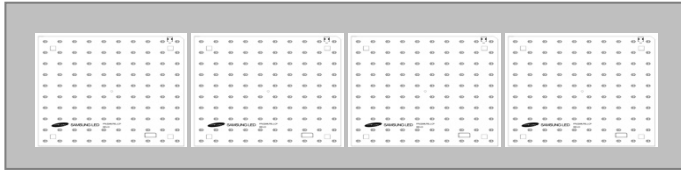


Thermal Test Point



Tc : 54.8°C / Ta : 31.3°C

1x4 Tile Type



1 Module Dimension : 217x280 [mm²]

<Driver>



210(L)×85(W)×28(H) [mm]






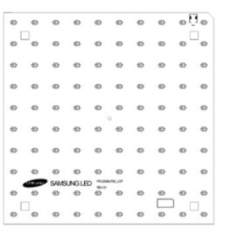

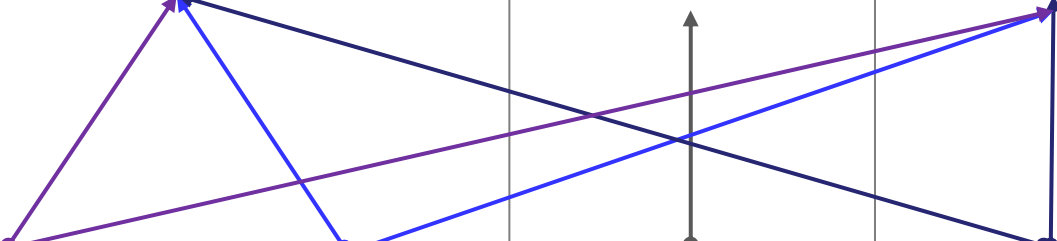







Product	PSU		Luminous Flux [lm]	Efficacy [lm/W]	CCT [K]	CRI [Ra]	Input Vol. [Vac]	Dimming	Certi.	Status
Module-80R (5252 Gen1B)	50W	30.5V*1.2A (4-ch)	3840 4160	77 83	3500 5000	80	100~277	0 to 10V**	UL cUL CE*	April
	50W	49V*0.9A (2-ch)	4160	85	5000 6500	80	90~244	-	CE, KC CCC	MP

* By the end of May

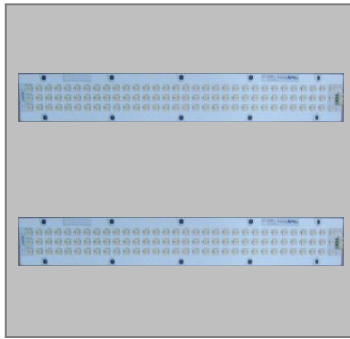
** Auxiliary 12Vdc Output Included

2x2 Tile Type - (3)

Can combined drivers and LED modules depending on user's requirements

Module-64X, 64Y	Module -80A		Module-80B	Module-100
				
				
 <p>260(L)x47.6(W)x28(H)</p>	 <p>182.4(L)x85(W)x32(H)</p>	 <p>360(L)x45(W)x30(H)</p>	 <p>210(L)x86(W)x30(H)</p>	 <p>360(L)x45(W)x30(H)</p>
45W	50W (100-240V)	75W (100-277)	50W (100-277)	100W (100-277)

2x2 Linear Type



<Driver>



Product	PSU		Luminous Flux [lm]	Efficacy [lm/W]	CCT [K]	CRI [Ra]	Input Vol. [Vac]	Dimming	Certi.	Status
Module-96LS (5252 Gen1B)	45W	24V*1.5A (4-ch)	3650	80	3500	80	120-277	0 to 10V**	UL cUL	Upon Request

Fixation with Fixture



Screws at 10 points per one Module

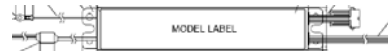
Thermal Test Point



Tc : 38.8°C / Ta : 24.5°C

* By the end of May
** Auxiliary 20Vdc Output Included

2x4 Linear Type



<Driver>



Product	PSU		Luminous Flux [lm]	Efficacy [lm/W]	CCT [K]	CRI [Ra]	Input Vol. [Vac]	Dimming	Certi.	Status
Module-72LL (5252 Gen2)	52W	24V*1.8A (4-ch)	5060	100	3500	80	120-277	0 to 10V*	UL cUL	Upon Request

* Auxiliary 20Vdc Output Included

DALI Solution

External Converter

Luminaire

