

Product Brief

Intematix Ambient Lighting Module

The Intematix ambient lighting module is a simple plug and play solution that enables highly uniform glare free lighting. The unique 240 degree wide beam pattern allows for the use of fewer light engines to create excellent uniformity and fill in a wide variety of functional, decorative, and architectural lighting applications. The remote phosphor system architecture eliminates the pixelation that is often present with white LED linear lighting systems and remains clean and consistent even under deep dimming conditions.

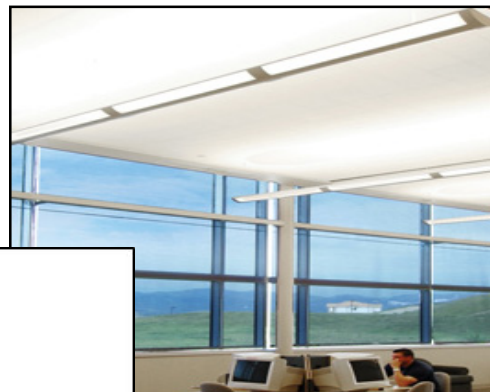
The robust polycarbonate lens fully encloses the LEDs, eliminating risk of damage. Color consistency of 3 SDCM is maintained over angle, over length, part to part, and over time; completely eliminating any concerns of color uniformity. Length options of 9.5, 12, 20, 21.8 and 43 inches reduce wiring, mounting steps, and components; further reducing system costs. Customized solutions with color temperatures from 2400K to 10,000K, CRI values of up to 98, high gamut area index (GAI), customized white points and lengths are also supportable.

Product Features

- Integrated modular solution
- Wide angle 240° FWHM beam pattern
- Diffuse and uniform emission pattern
- Impact resistant polycarbonate cover
- 3 SDCM Color consistency
- Multiple product length options
- 5 Year limited warranty

Application Benefits

- Accelerates time to market
- Excellent uniformity and fill
- Glare free non-pixelated lighting
- Protects LEDs from risk of damage
- Uniform consistent lighting
- Reduced wiring and mounting costs
- Design with confidence



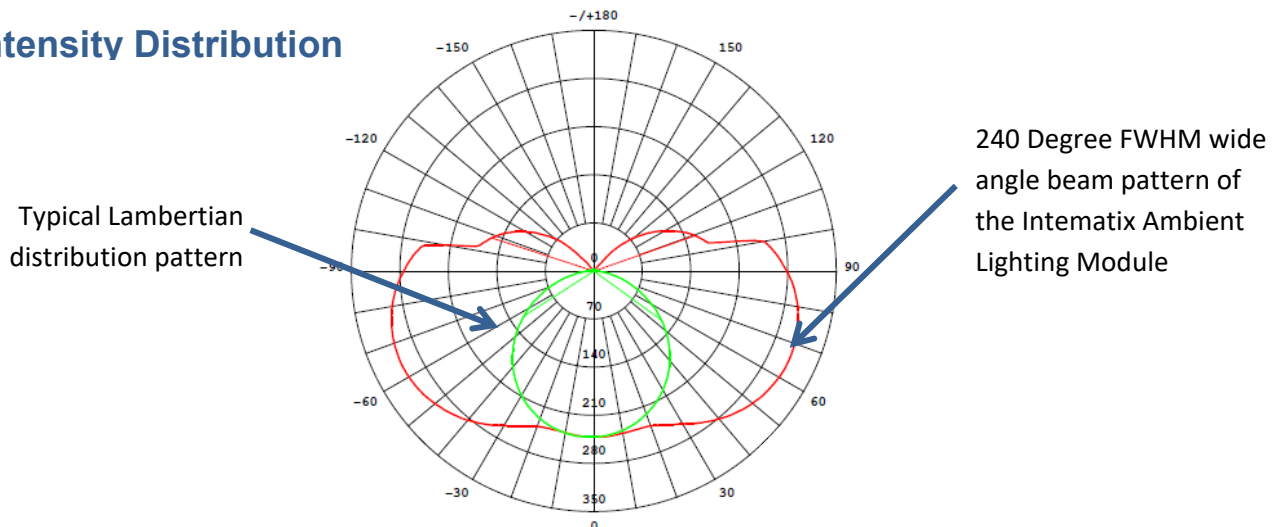
Optical and Performance Characteristics

Length	Product	CCT (K)	CRI (min)	LOP (lm)	Efficacy (lm/W)	Product	CCT (K)	CRI (min)	LOP (lm)	Efficacy (lm/W)
9.5 Inch 240 mm	ILM-AL01-830-0800-0240	3000	80	805	134	ILM-AL01-927-0600-0240	2700	90	660	110
	ILM-AL01-835-0800-0240	3500	80	830	138	ILM-AL01-930-0600-0240	3000	90	705	118
	ILM-AL01-840-0800-0240	4000	80	865	144	ILM-AL01-940-0600-0240	4000	90	750	125
12 Inch 305 mm	ILM-AL01-830-1200-0305	3000	80	1090	136	ILM-AL01-927-0900-0305	2700	90	890	111
	ILM-AL01-835-1200-0305	3500	80	1120	140	ILM-AL01-930-0900-0305	3000	90	950	119
	ILM-AL01-840-1200-0305	4000	80	1160	145	ILM-AL01-940-0900-0305	4000	90	1000	125
20 Inch 508 mm	ILM-AL01-830-2100-0508	3000	80	1920	134	ILM-AL01-927-1600-0508	2700	90	1570	110
	ILM-AL01-835-2100-0508	3500	80	2000	140	ILM-AL01-930-1600-0508	3000	90	1680	117
	ILM-AL01-840-2100-0508	4000	80	2070	145	ILM-AL01-940-1600-0508	4000	90	1800	125
21.8 Inch 554 mm	ILM-AL01-830-2300-0554	3000	80	2200	140	ILM-AL01-927-1800-0554	2700	90	1750	111
	ILM-AL01-835-2300-0554	3500	80	2250	143	ILM-AL01-930-1800-0554	3000	90	1860	118
	ILM-AL01-840-2300-0554	4000	80	2300	146	ILM-AL01-940-1800-0554	4000	90	1990	127
43 Inch 1092 mm	ILM-AL01-830-3200-1092	3000	80	3000	140	ILM-AL01-927-2400-1092	2700	90	2450	114
	ILM-AL01-835-3200-1092	3500	80	3100	144	ILM-AL01-930-2400-1092	3000	90	2580	120
	ILM-AL01-840-3200-1092	4000	80	3160	147	ILM-AL01-940-2400-1092	4000	90	2770	129

Note: All values shown are hot performance values after 60 minutes of operation, $T_c = 40^\circ\text{C}$

Length	Rated Current (mA)	Forward Voltage (V)	Power (W)
9.5 Inch / 240 mm	350	17.2	6.0
12 Inch / 305 mm	350	22.9	8.0
20 Inch / 508 mm	500	28.6	14.3
21.8 Inch / 554 mm	500	31.5	15.7
43 Inch / 1092 mm	500	42.9	21.5

Intensity Distribution



Please contact a sales representative for additional product details.
For more information contact sales@intematix.com.

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