

LIN-048-FIN

All products feature Noribachi's exclusive Bespoke Engineered and Specifically Tailored (BEST) manufacturing methodology.

CATALOG #:	TYPE:
PROJECT:	
COMMENTS:	DATE:
PREPARED BY:	

LIGHT ENGINE



Performance Summary

Lumens Range: 7,152 lm - 10,128 lm
 Lumens Per Watt (Typical): 141
 CRI: Minimum 70 CRI. Custom CRI available upon request.
 CCT (Typical): 3000K, 4000K, 5700K

Electrical System Characteristics / Data

Standard AC input: 120 - 277 VAC
 EMI filter: 47CFR, part 2, part 15
 Power factor: > 0.9
 Total harmonic distortion: < 20%
 Surge protection: IEC/EN 61000-4-5 EMC test standard

Light Engine Retrofit

Rated: L70 rated life of 100,000+ hours
 CRI: Minimum CRI: 70; Custom CRI available upon request.
 Certifications: No toxic chemicals / ROHS compliant ETL certified, meets UL and CSA standards.
 Rebates: Eligible for rebates.
 Energy Savings: 50-90%
 Manufactured: Manufactured in the USA.

Electrical characteristics and performance data verified by Nationally Recognized Testing Labs (NRTL).

For full reports and results, visit www.noribachi.com/reports.

Ordering Information

Determine how much light output is required for your application. Match lumen output or replacement wattage with a light engine retrofit.

If ordering a light engine retrofit, check that minimum dimensions do not exceed those of the fixture.

For sales and support, contact sales@noribachi.com or 855-283-1100.

Ordering Information

Sample Catalog Number: LIN-048-FIN-B-WVV-MT

LIGHT ENGINE	DRIVE CURRENT	WATTAGE	REPLACES	COLOR TEMPERATURE	VOLTAGE	MINIMUM GEOMETRY	OPTIONAL BEAM SPREAD
LIN-048-FIN LIN-048-FIN	A B	48W 72W	100-225W 150-320W	CW – COOL WHITE (5700K TYPICAL) NW – NEUTRAL WHITE (4000K TYPICAL) WW – WARM WHITE (3000K TYPICAL)	MT – 100-277 VAC HC – 347 VAC HV – 480 VAC OT – CUSTOM REQUEST	REC – RECTANGULAR 7" X 9"	80D – OPTIONAL 80° BEAM SPREAD

Warranty:
 Five-Year Limited Warranty. Optional 10-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty

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ELECTRICAL

Optics

High brightness, high efficiency LEDs. Color temperature options include Cool White (5700K typical), Neutral White (4000K typical) Warm White (3000K typical) with minimum 70 CRI. Custom RGBW colors available. 120° beam spread standard. 80° beam spread available.

Driver

Available with A drive current (350 mA) and B drive current (525 mA). Highly reliable. Suitable for dry, damp and wet locations. Compliant to worldwide safety regulations for lighting.

Testing Compliance

UL 1598 Issued: 2008/09/17 Ed:3 Rev:2012/10/17 UL Standard for Safety Luminaires CSA C22.2#250.0 Issued: 2008/09/17 Ed:3 Luminaires; General Instruction No.1 2010/01/11, General Instruction No. 2 2012/10/17.

Ambient Temperature

-40° C to +65° C (-40° F to + 149° F).

Manufacturing

Manufactured in beautiful Harbor City, CA. ARRA Compliant. NAFTA Compliant. Test and burn-in of 100% of all luminaires before shipment. No less than 8-years experience in manufacturing LED-based products.

Note

Specifications subject to change without notice. Actual performance may differ as a result of end-user environment application. Actual wattage may differ by +/- 8%.

Electrical Load					
LIGHT ENGINE	DRIVE	DRIVE CURRENT (AMPS@120V)	DRIVE CURRENT (AMPS@277V)	DRIVE CURRENT (AMPS@480V)	SYSTEM POWER* (WATTS)
LIN-048-FIN	A	0.40	0.17	0.10	48.17
LIN-048-FIN	B	0.60	0.26	0.15	72.06

*Ideal Wattage

Operating Characteristics (Typical @5700K CCT)					
LIGHT ENGINE	DRIVE	LUMENS (T5)	INPUT POWER (WATTS)	LUMENS PER WATT	RELACES
LIN-048-FIN	A	7,152	48.17	148.48	100-225W
LIN-048-FIN	B	10,128	72.06	140.55	150-320W

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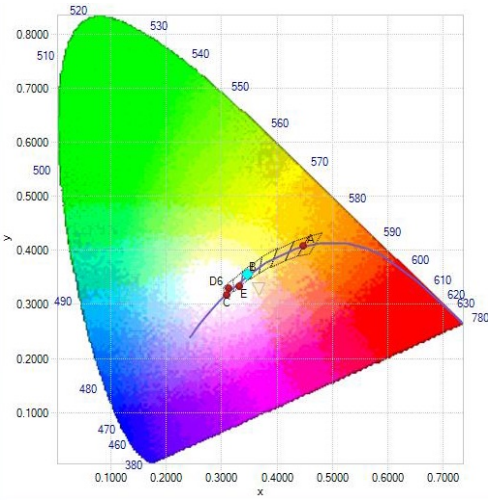
DATE:

PREPARED BY:

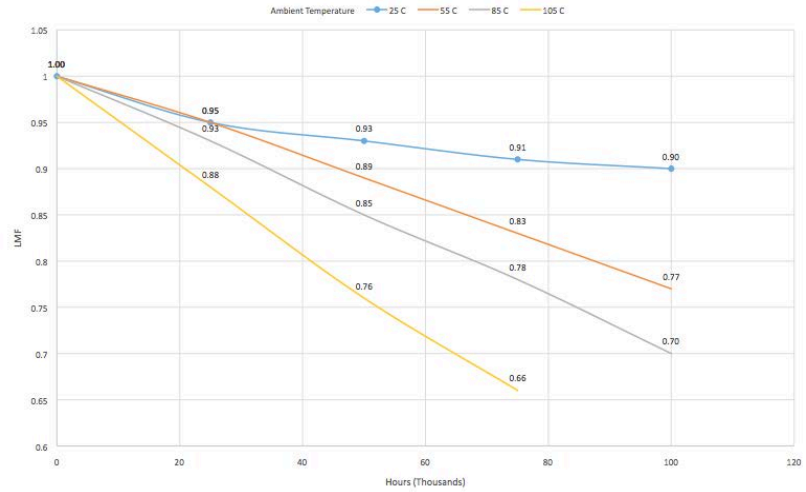
PERFORMANCE / DISTRIBUTION

CIE LUV BINNING CURVE

LIN-140 CIE 1932 - 2 Degree



Lumen Depreciation Chart



Lumen Maintenance Factors (B Drive)

AMBIENT	INITIAL LMF	25K HR PROJECTED LMF	50K HR PROJECTED LMF	75K HR PROJECTED LMF	100K HR PROJECTED LMF
25° C	1.00	0.95	0.93	0.91	0.90
55° C	1.00	0.95	0.89	0.83	0.77
85° C	1.00	0.93	0.85	0.78	0.70
105° C	1.00	0.88	0.76	0.66	n/a

Each temperature has an independent initial value. In accordance with IESNA TM21011, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)

Lumen Multiplier

AMBIENT TEMPERATURE	LUMEN MULTIPLIER
10° C	1.032
15° C	1.021
25° C	1.000
40° C	0.968
50° C	0.968

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