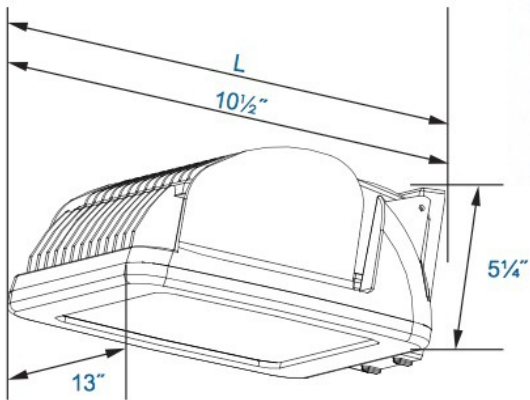




Shown with non-standard lens.



Product Information

The Floodlight.B is a versatile, high-powered LED lighting fixture that improves lighting quality throughout large outdoor spaces.

This LED lighting fixture features die-cast aluminum housing with clear lens.

Applications: Auto Dealerships, Parks, Signage, Wall Washing and all outdoor floodlight applications.

Performance Ratings and Certifications

UL 1598
UL 8750
CSA C22.2#250.0
CSA C22.2#250.13
IP Rating: IP65

Performance Summary

Lumens:	4,862 – 29,172 lm
Lumens Per Watt (typ.):	140 LPW
Power Consumption:	34.70 – 208.40 W
Light Engine:	L70 Rated Lifetime of 100,000+ hours.
CRI:	Minimum 70 CRI. Optional custom CRI.
CCT (Typical):	3000K, 4000K, 5700K, optional tight bins.
Light Dist. Pattern:	Multiple distribution patterns available
Manufactured in the U.S. with parts from U.S. and imported.	

Fixture Information

Housing:	Die-cast aluminum.
Color:	Bronze. Optional custom color,
Finish:	Superior dual coat finish. Chemical resistant epoxy primer and/or Marine Grade coating optional.
Lens:	Clear Flat Glass lens. Optional clear flat prismatic glass lens.
Mounting:	None Standard. Optional Slip-fitter, Trunnion, 6" Arm Mount, 10" Arm Mount, Round Pole Adapter, Wall Mount Bracket available.
Diffusion:	None / Prismatic
Length:	10 1/2"
Height:	5 1/4"
Width:	13"

Electrical System Characteristics / Data

AC Input:	120/277 VAC (standard), 480 VAC (upgrade)
FCC:	Title 47, Part 2, Part 15, Class A
EM:	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (60% load); EN61000-3-3
EM Immunity:	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A
Withstand Voltage:	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
Isolation Resistance:	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 / 70% RH
Power Factor:	PF > 0.98/115VAC, PF > 0.92/277VAC
Total Harmonic Distortion:	THD < 20%
Standard Surge Protection:	All-Around Protection: OVP, SCP, OLP.
Enhanced Surge Protection:	Protects against surges according to IEEE C62.41.2 C and ANSI C136.2

Emergency Batt. Backup Optional upgrades available.

Optional Controls:

Wireless Controls:	Optional via Pulse Wireless Mesh Network
Dimming:	0-10V, step, line voltage or bi-level.
Daylight Harvesting Sensor:	Optional
Occupancy Sensor:	Optional
Photocell:	Optional

Warranty

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

Performance Specifications

Electrical Load				
Standard Order Code	Drive Current (Amps@120VAC)	Drive Current (Amps@277VAC)	Drive Current (Amps@480VAC)	System Power (Watts)*
FLB-HEX-021-B-CW-MT	0.29	0.13	0.07	34.70
FLB-HEX-042-B-CW-MT	0.58	0.25	0.14	69.50
FLB-HEX-063-B-CW-MT	0.87	0.38	0.22	104.20
FLB-HEX-084-B-CW-MT	1.16	0.50	0.29	138.90
FLB-HEX-105-B-CW-MT	1.45	0.63	0.36	173.60
FLB-HEX-126-B-CW-MT	1.74	0.75	0.43	208.40

* ideal wattage

Operating Characteristics (Typical @5700K CCT)				
Standard Order Code	Lumens (Medium Dist)	Input Power (Watts)	Lumens per Watt	Replaces
FLB-HEX-021-B-CW-MT	4,862	34.70	140.12	75-175W
FLB-HEX-042-B-CW-MT	9,724	69.50	139.91	125-300W
FLB-HEX-063-B-CW-MT	14,586	104.20	139.98	200-400W
FLB-HEX-084-B-CW-MT	19,448	138.90	140.01	300-525W
FLB-HEX-105-B-CW-MT	24,310	173.60	140.03	400 – 650W
FLB-HEX-126-B-CW-MT	29,172	208.40	140.00	550-800W

Fixture Specifications

Construction

Durable, die cast aluminum housing, with highly durable, bronze powdercoat finish.

Optional Finishes

Custom colors available (specify RAL code). Epoxy finish and marine-grade coating available. Marine grade coating is green.

Mounting Options

None Standard. Optional Slip-fitter, Trunion, 6" Arm Mount, 10" Arm Mount, Round Pole Adapter, Wall Mount Bracket available.

Lens Options

Clear flat glass standard. Optional clear flat prismatic lens available.

Light Distribution Patterns

T5 distribution pattern standard. T1, T2, T3 and T4 patterns are optional. Right slant and left slant also available.

Electrical System Specifications

Electrical System

Standard AC input of 120 – 277VAC. Optional upgrade to 480VAC. Driver meets maximum harmonic distortion (THD) of 20% and is ROHS compliant. Power Factor = > 0.9. Standard Surge protection according to IEC/EN 61000-4-5 EMC test standard and can protect against up to 4KV transient surge. Optional, enhanced Surge Protection protects Line-Ground, Line-Neutral, and Neutral-Ground. Protects against surges according to IEEE C62.41.2 C(10kA and 10kV) and ANSI C136.2.

Controls

Optional controls include: 0-10V, Step, line voltage and Bi-Level Dimming functionality (not guaranteed to work with all dimming systems). Occupancy and Daylight Harvest Sensors available. Optional Emergency Battery Backup: Nickel-Cadmium Batteries, 5W, 600 Lumens for 90 minutes. Optional Cold Emergency Battery Backup: 23W, 2000 Lumens for 90 minutes. The battery has a 7-10 year lifespan.

Driver

All LED drivers provide constant current to give flicker free lighting. Two different drive currents are provided; A (350 mA) and B (525 mA). Highly reliable. Suitable for dry, damp and wet locations. Compliant to worldwide safety regulations for lighting.

Ambient Temperature

We provide fixtures that can sustain ambient temperature ranging from -40F to 140F (-40C to 60C).

Wireless Control Options

Optional wireless networking using the Noribachi Pulse Wireless controller. Pulse is an Arduino-based hardware platform that provides communication between fixtures and a base station using Digi's XBEE based mesh network. Pulse controls up to 16 independent LED lighting fixtures using an FCC approved 900 MHz frequency with up to 200 Kbps data transmission speed. Transmit power output 50 mW. Data transmission rate is 156.25 kbps. 128 bit AES Encryption.

Occupancy Sensor and Daylight Harvesting

Sensor provides 60' diameter coverage from a 40' height. Time can be set from 30 seconds to 30 minutes.

RGBW Controls

Optional RGBW controls with communication to fixture via DMX512 or DMX256 and four channel controls. Four channel control uses red, green, blue and white (to control intensity). DMX controller optional, either software DMX master (via CD and USB adapter) or a physical DMX master. 2.4 GHz wireless DMX networking optional. Other frequencies available upon request.

Testing Compliance

Noribachi complies with and exceeds standards set forth by UL and CSA. All luminaires comply with UL 1598 (CSA C22.2#250.13), and UL 8750 (CSA C22.2#250.0) standards for safety. Performance testing is done in accordance with LM-79 color measurements and LM-79 distribution measurements, and LM-80 lumen maintenance testing.

Manufacturing

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

Warranty

Standard limited 5-year warranty, first year includes labor. Optional 10-year warranty available. See details at www.Noribachi.com.

Note

All safety tests and performance data is done in ambient (STP) conditions. Specifications subject to change without notice. Actual performance may differ as a result of end-user environment application. Actual wattage may differ by +/- 8%. Lumen values may vary within compliance with ANSI C78-377 (unless specifying tight color bins).

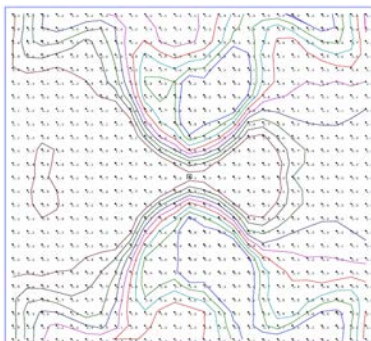
Distribution Types

Power and Lumens by Light Engine							
Distribution							
Light Engine	Drive	CCT	T1	T2	T3	T4	T5
HEX-021	B	5700	4,765	3,792	4,619	4,376	4,862
HEX-042	B	5700	9,530	7,585	9,238	8,752	9,724
HEX-063	B	5700	14,294	11,377	13,857	13,127	14,586
HEX-084	B	5700	19,059	15,170	18,476	17,503	19,448
HEX-105	B	5700	23,824	20,664	23,095	21,879	24,310
HEX-126	B	5700	28,589	22,754	27,714	26,255	29,172

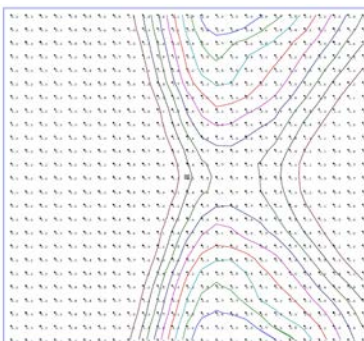
*Distribution types may not be applicable for all fixture configurations.

Type Distribution HEX-126

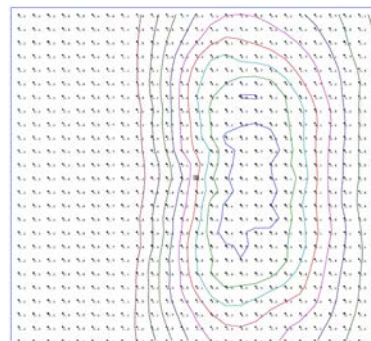
T-1



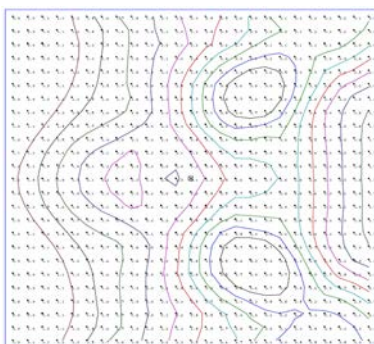
T-2



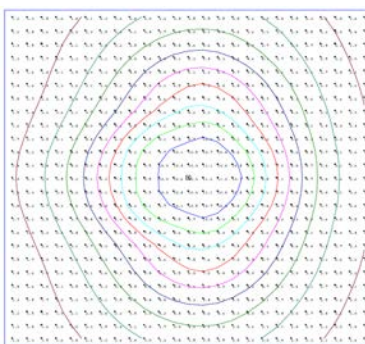
T-3



T-4



T-5



Distribution

120° Standard Beam Spread. 80° Optional Beam Spread available for certain light engines. 40° Optional Beam Spread available for certain light engines. Other Light Engine Type Distribution available upon request.

Distribution types may not be applicable for all fixture configurations.

•IES Type Distributions are generated in an open space.
•Light Distribution images are mounted at 10 feet.

Optics Specifications

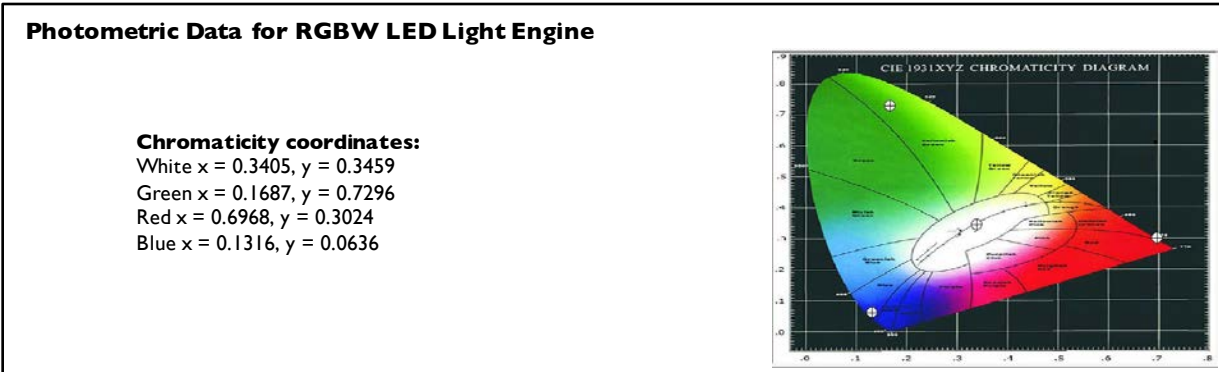
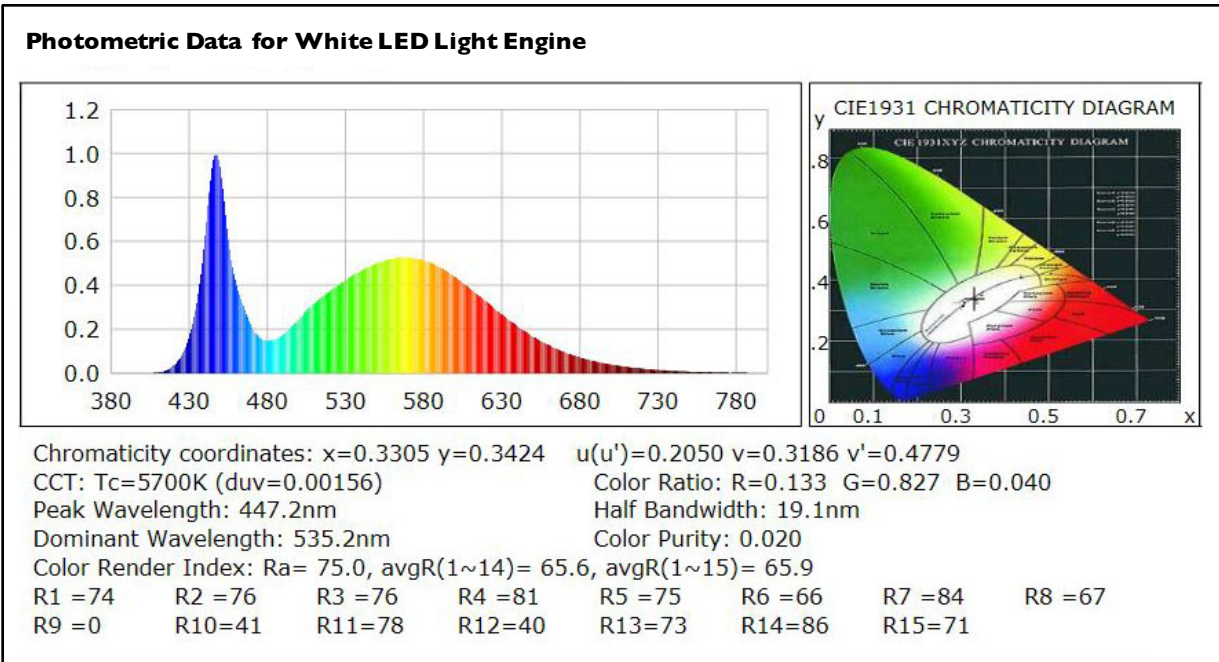
White LED Optics

High brightness, high efficiency LEDs. Standard color temperature is Cool White (5700K typical). Neutral White (4000K typical) and Warm White (3000K typical) also available. All with minimum 70 CRI. Tight bins ($\pm 50\text{degK}$ variability) also available – recommended for WW installations as the eye is sensitive to variations in this color range. 40deg and 80deg beam angle optional (n/a for RGBW).

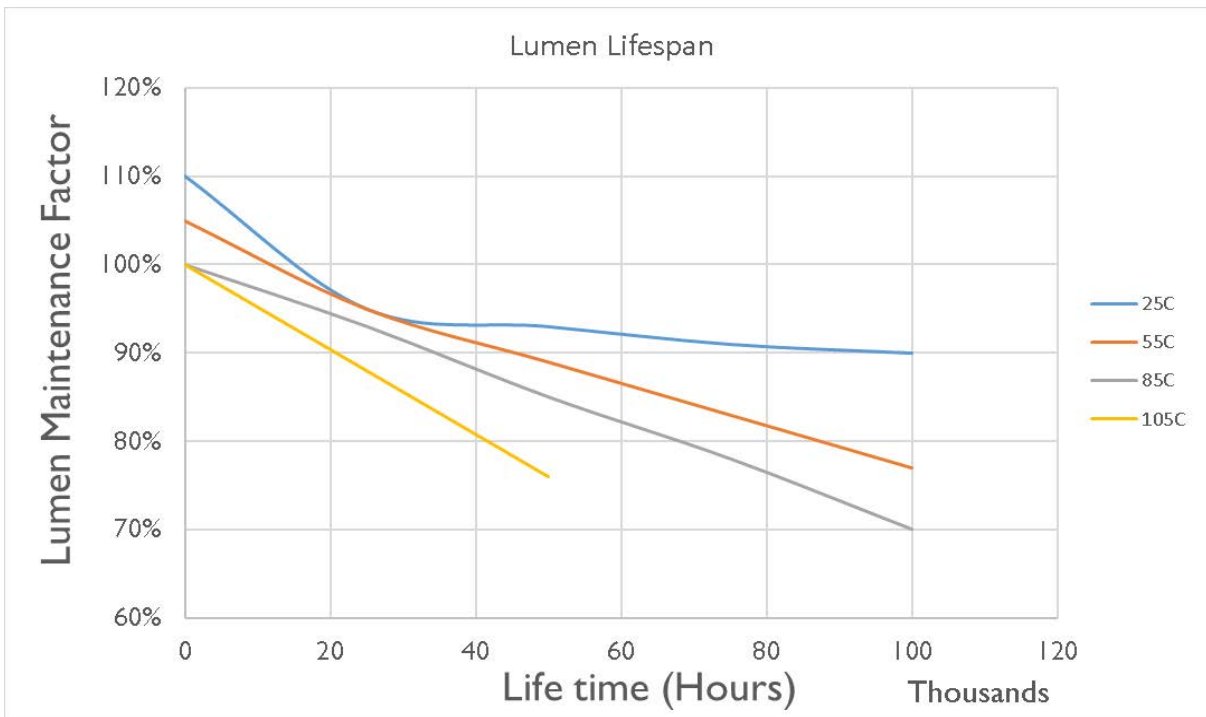
RGBW Light Engine Optics

RGBW light engine also available, compatible with DMX controller. RGBW colors, to allow changing from pure white light to any hue available. Multiple channels of LEDs produce a full spectrum of light anywhere from deepest red to farthest violet. CRI greater than 75 in the 2700K – 4000K range.

Single color light engines also available. Red=630 nanometers, Green=525 nanometers. Blue=475 nanometers.



Lumen Performance



Lumen Maintenance Factors (B Drive)					
T _j (Junction Temp)	INITIAL LMF	25K HR PROJECTED LMF	50K HR PROJECTED LMF	75K HR PROJECTED LMF	100K HR PROJECTED LMF
25°C	1.10	0.95	0.93	0.91	0.90
55°C	1.05	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	N/A	N/A

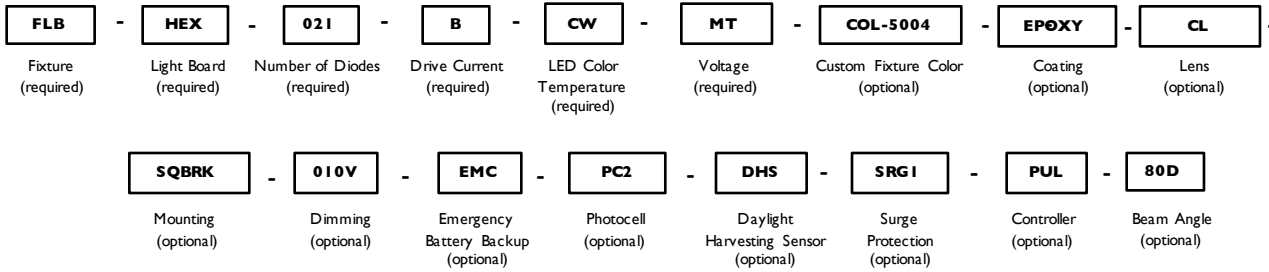
Each temperature has an independent initial value. In accordance with IESNA TM021011, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip. In 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	0.946

FLOODLIGHT.B

How to Order

Sample Order Code: Only include the optional upgrades you need.



Numbering Order	Specification	Required or Optional	Allowed Values	Description
1	Fixture	Required	FLB	For Floodlight.B
2	Light Board	Required	HEX	For Floodlight.B
3	Number of Diodes	Required	021	For HEX-021
			042	For HEX-042
			063	For HEX-063
			084	For HEX-084
			105	For HEX-105
			126	For HEX-126
4	Drive Current	Required	B	B (525mA) drive current
5	LED Color Temperature	Required	CW	Standard Cool White LEDs (5700K)
			NW	Neutral White LEDs (4000K)
			WW	Warm White LEDs (3000K)
			[Specific degree Kelvin]	Specific color temp LEDs [Specific degree Kelvin]
			TB1 [Specific degree Kelvin]	Tight Bin LED Color [Specific degree Kelvin]
			TB2 [Specific degree Kelvin]	Tight Bin LED Color [Specific degree Kelvin] for all others
			RGBW	Red/Green/Blue/White light engine
6	Voltage	Required	MT	Standard AC input: 120VAC - 277VAC
			HV1	High Voltage (480VAC) option for up to 150W
			HV2	High Voltage (480 VAC) option for over 150W
7	Custom Fixture Color	Optional	COL-[RAL]	Custom Fixture Color (RAL code)
8	Coating	Optional	COAT	Marine Grade Coating
			EPOXY	Epoxy Coating
9	Lens	Optional	CL	Clear
			PRIS	Prismatic
10	Mounting	Optional	TR	Trunnion Mount
			SF	Slip-fitter
			SQBRK	Wall Mount Bracket
			AM6	6" Arm Mount
			AM10	10" Arm Mount
			RPA	Round Pole Adapter
11	Dimming	Optional	010V	0 - 10V dimming
			STEP	Step dimming
			LVDIM	Line Voltage Dimming
			BLD[%]	Bi-level dimming
12	Emergency Battery Backup	Optional	EM	Emergency Battery Backup
			EMC	Emergency Battery Backup - Cold
13	Photocell	Optional	PC1	Photocell for 120V applications
			PC2	Photocell for 277V applications
14	Daylight Harvesting Sensor	Optional	DHS	Daylight Harvesting Sensor
15	Surge Protection	Optional	SRG1	Enhanced surge protection for 120-277VAC
			SRG2	Enhanced surge protection for 480VAC
16	Controller	Optional	PUL	Pulse Wireless Controller
17	Beam Angle	Optional	80D	80degree Beam Angle Optics

ELECTRICAL CHARACTERISTICS AND PERFORMANCE DATA VERIFIED BY NATIONALLY RECOGNIZED TESTING LABS (NRTL). FOR FULL REPORTS AND RESULTS, VISIT WWW.NORIBACHI.COM/REPORTS. ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. ALL VALUES TYPICAL UNLESS OTHERWISE NOTED. LUMEN VALUES MAY VARY BY +/-10%. COLOR TEMPERATURE MAY VARY ACCORDING TO ANSI C78.377.
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