

LiteBLOCK™ LED - Canada.

Sporting & Commercial Lighting.



LiteBLOCK™

80,000 Lumen (0.75kw) = 2kw Metal Halide

Industrial High-bay lighting from LiteBLOCK™ Canada.

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104 Lm/W (Lumens per Watt) to over 150 Lm/W (150,000+ hrs life)



Specification Sheet for 20,000 Lumen LITEBlock® LED High Efficiency Hi-Bay

1.0 Main Features

- 1.1 LiteBLOCK™ LED lighting products (Patent Pending) have been developed to the highest standards – utilizing aerospace technology to ensure high reliability and performance previously unattainable.
- 1.2 The LiteBLOCK™ LED lighting system is composed of two main components manufactured to custom requirements:
 - a) LED Module (Patent Pending)
 - b) Driver (Innovative high efficiency)

LiteBLOCK™ is a light engine which can be adapted to customer requirements.
- 1.3 Depending on application and intended use, our LED modules produce illumination efficacies from 104 Lm/W (Lumens per Watt) to over 150 Lm/W; numerous possible applications being: industrial and commercial lighting, e.g. bay, sport; ambience or external field applications such as NSF or hazardous environments. Our minimal environmental category is IP65.
- 1.4 The LED Driver Modules are specifically configured for specific LED Modules and are not client configurable or interchangeable with other products. The Driver module is usually mounted with the LED module resulting in an integrated structure complying with the most rigorous safety and performance standards.
- 1.5 Our LiteBLOCK™ LED lighting series is designed to give our clients the utmost flexibility enabling adaption to most applications. The specification below is specific to the standard product, however we can consider custom needs or enquiries which extend beyond our published data.

LiteBLOCK™ LED Technology Features:

2.0 17 Inch H-Bay LITEBlock™ Specifications

- 1) Lumen Output: From 300 LMS to 300,000 LMS
Efficacy - From 104 LM/W to over 160 LM/W for refrigerated applications.
- 2) System Design and Performance 4 * Better than IESNA LM-80 requirements. (Due to thermal and optical derating)
- 3) Lumen Output: From 300 LMS to 300,000 LMS
- 4) IP68 Encapsulated LED Modules from 1.0" Ø to 34.0" Diameter –
(NOTE: We have found a way to make a 34" LED Array)
- 5) Lumen Maintenance – 4 * Better than TM-21 L70 Lifetime Projections.
(Due to thermal and optical derating)
- 6) MTBF of overall system > 200,000 hrs. at 35 Deg. C Ambient.
Custom Applications to Client Requirements considered.
- 7) Technology and Manufacture support upcoming in Ireland.
- 8) Meets all World Utility Power Supplies.
- 10) Standard 20,000 lumen = 150w will replace 500w HID.
- 11) Up to 20 year warranty – (negotiable) IP 68

DRIVER	
Input Voltage Range:	90 ~ 347 VAC (40Hz ~ 400Hz)
Rated Wattage:	160W
Immunity:	To EN 61547:2009
Maximum Input Current (RMS):	1.8A max @ 90 VAC; 0.46A @ 347 VAC
Harmonic Currents:	To IEC 1000-3-2 (See Appendix A)
P.F. (Power Factor)	0.97 ~ 1.00 Depending on Input Voltage
T.H.D. (Total Harmonic Distortion)	< 16% All Models; EN 61000-3-2
Compliances: (Pending)	CSA C22.2 No. 250.13-14; UL 8750, 1st Ed. Flicker requirements to EN 61000-3-3
EMC: (Pending)	US: FCC 47 CFR Part 15; Canada, ICES-005; EN 55015:2013; EN 62493:2010
Operating Ambient Temperature Range:	-45 °C to 45 °C *
Control (Optional):	To IEC 60929 Annex E for DC control: 0 ~ 100% - (Control voltage 0 ~ 10V DC); DMX512 option available in future.
Environmental:	Dry and wet locations IP65 minimum; IP68 to special order.
Installation:	To be installed by qualified technical service personnel.

Utility Voltage and Power Characteristics.

LED Module Characteristics

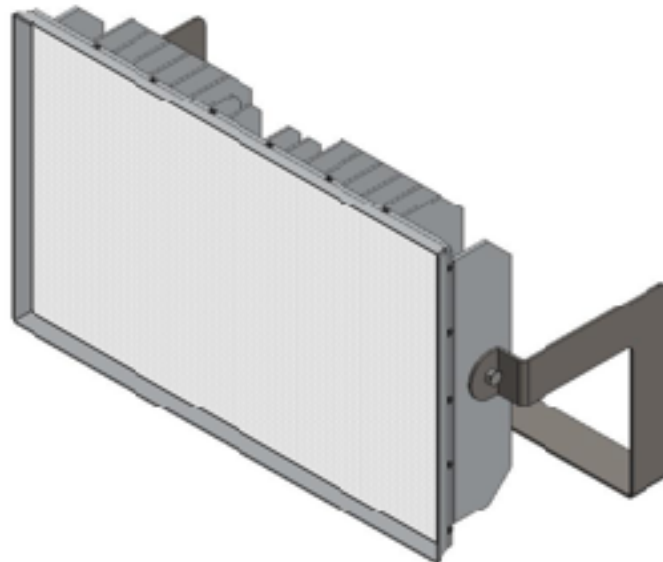
LED MODULE	
Input Voltage Range:	Specific to driver module.
Rated Wattage:	17 Inch Standard Module 75W; (Non Heat-Sink Version)
Color Temperature:	3000K to 6000K; Available to special order
System Efficacy:	104 ~ 150 LMs/W (Depending on operating temperature and conditions.
Operating Ambient Temperature Range:	-45 °C to 45 °C (Extendable to special order)
Installation:	N/A
Compliances: (Pending)	CE; TUV; CSA C22.2 No. 250.13-14; UL 8750, 1st Ed.
Environmental:	Dry and wet locations IP65 minimum; IP68 to special order

3.0 System Specifications

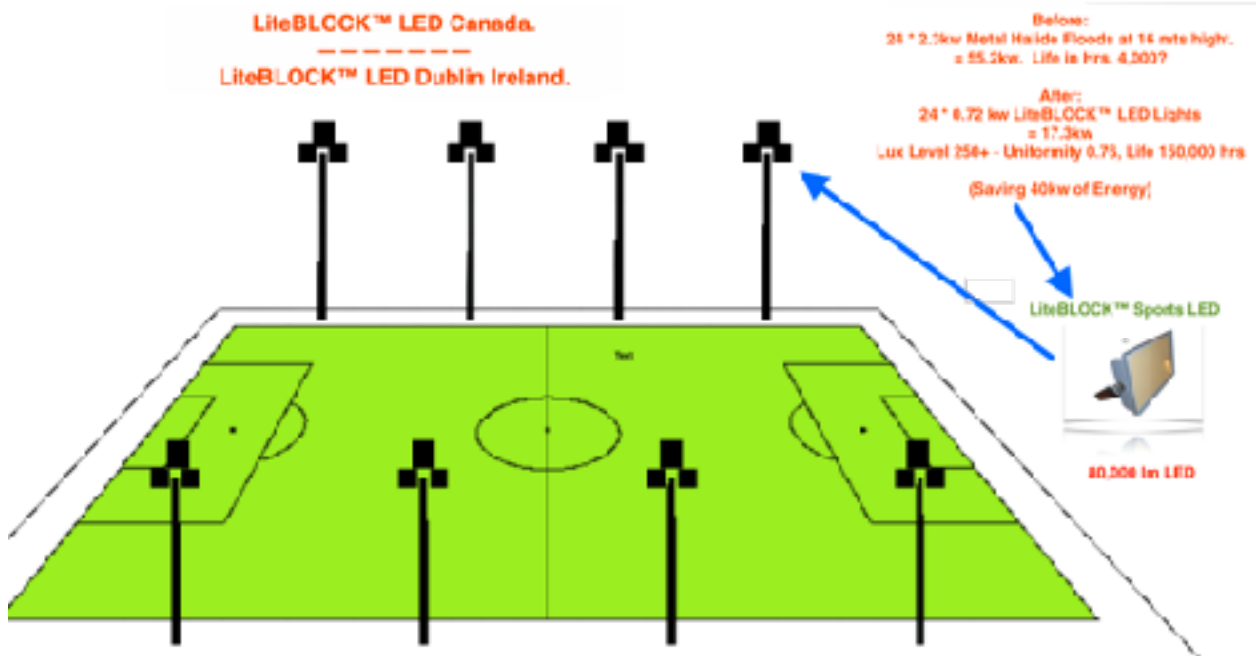
System Characteristics

SYSTEM	
Average Life:	20 Years (Based on MTBF of 200,000 hrs. at 25 deg. C ambient – Derate by factor of 2 for every 10 deg. C temperature rise above 25 deg. C)
Lumen Maintenance:	LEDs are to IESNA LM-80-2008; (Reported TM-21 L70 Lifetime :> 36,000 hours @ 55°C) System performance is enhanced due to derating criteria and patented LED Module Encapsulation Technology.
Average Chromaticity Shift:	0.0014 @ 6000 hours ($\Delta u'v'$)
CRI:	83 Minimum; 86 Typical
Minimum Starting Temperature:	-45 °C
DLC:	Designed to meets DLC Premium (Technical Requirements Table V3.0) – Certification on request.
Operating Ambient Temperature Range:	-45 °C to 45 °C
Installation:	To be installed by qualified technical service personnel.
Compliances: (Pending)	As performed on LED Module and Driver
Environmental:	Dry and wet locations IP65 minimum.
Mechanical & Structural:	Weight: 6.4Kg Max. Aluminum and encapsulation to UL94 V-0 Consult with LumiConcept for model variants.

Lumen Output: From 300 LMS to 300,000

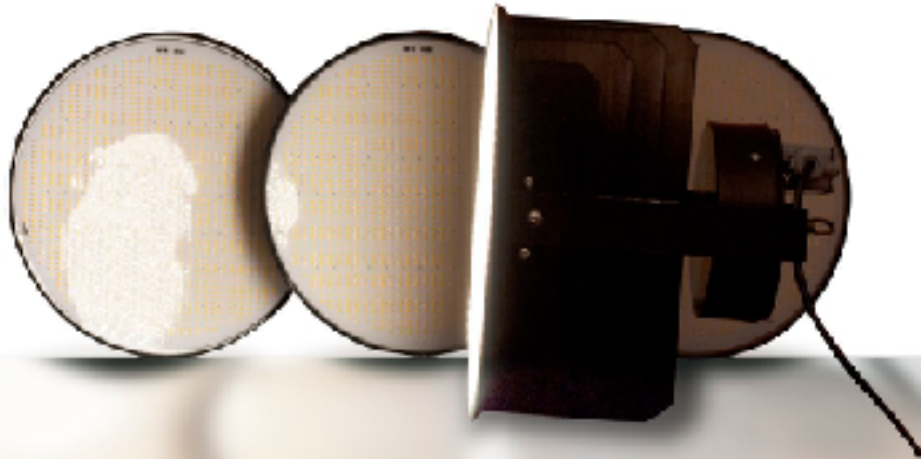


80,000 lm LiteBLOCK™ Sports LED Fixture



12”10,000 Lm & 17” 20,000 Im High-Bays for Industry- IP65.

150,000 + hrs life - Up to 20 year warranty (negotiable)



LiteBLOCK™ LED, Customised Sports Light.



Secure Packing.

