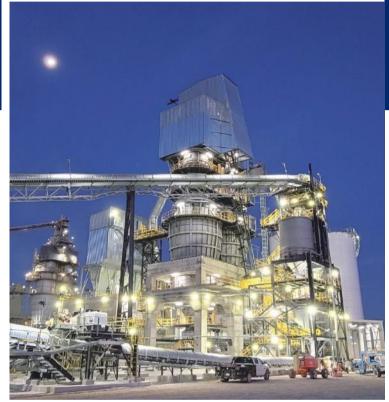
# **BLOCK MINI SERIES H1**

LED LIGHTING FOR HARSH AND HAZARDOUS AREAS AREA & LOWBAY



# PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS

- A leading manufacturer of premium LED lights for demanding work conditions
- Headquartered in California, products assembled in the USA
- Servicing global clients across 4 continents in metal processing, oil & gas, marine, manufacturing
- Renowned for quality, dependability, client care and uncompromising safety standards



#### **WHY CHOOSE RED SKY**

#### **SERIOUSLY SAFE LIGHTS**

- Rigorously tested in our professional labs
- · Surpassing industry certifications and safety protocols
- Crafted with highest grade components for maximum durability

#### TOP-NOTCH SERVICES

- · Team of experts for seamless support
- Energy audit services, lighting simulation services
- · Hassle-free return policy and management

#### **♠ FAST DELIVERY**

- · Majority of orders delivered within 14 days
- · Same day shipping for products in stock
- · Real-time order tracking for full transparency

#### **N** SUSTAINABLE SOLUTIONS

- · High luminous efficacy LEDs for energy savings
- · Conscious product design
- · Recyclable materials for products and packaging



# BLOCK MINI SERIES

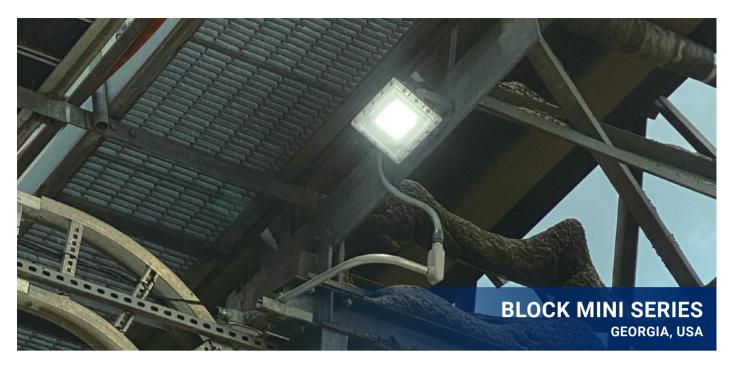


Introducing the Block Mini Series H1 from Red Sky Lighting - a compact and powerful explosion-proof LED luminaire engineered for the most hazardous locations. This versatile lighting solution meets the stringent Class 1 Division 1 standard, certifying it for use in areas where flammable gases, vapors or liquids are present under normal operating conditions.

The factory-sealed Block Mini H1 eliminates the need for external sealing fittings, simplifying installation and maintenance. Its exceptional thermal management system offers a T6 temperature rating and is engineered to perform reliably in high ambient temperatures up to 149°F, providing an impressive L70 rating of over 219,000 hours.

Compact and lightweight, the Block Mini H1 is easy to handle and install, making it ideal for applications with limited space and low mounting heights. Red Sky Lighting's smart lens choices allow you to customize the light distribution with clear, diffused, and Type 2 & 3 options.

The Block Mini Series H1 comes backed by Red Sky Lighting's 10-year warranty, underscoring the company's confidence in this cutting-edge explosion-proof luminaire engineered to the highest standards.



# **FEATURES**



#### ▶ Factory Sealed

No external sealing fittings required in Groups B, C and D.

#### Thermal Management ■ Thermal Management Thermal Management

Safe and reliable heat transfer - Offering a T-rating of T6 (CID1)

Heat sink designed to perform in high ambient temperatures up to +149°F. L70 >219,000 Hours@149°F

#### Compact and Light Weight Design

For easy handling, especially when access to limited space with low mounting heights

#### **RATINGS**

Class I, Division 1, Groups B, C and D;

Class I, Division 2, Groups A, B, C and D;

Class II, Division 1, Groups E, F and G.

Class II Division 2, Groups F, G

Class III

Class I, Zone 1, Group IIB

Class I, Zone 2, Group IIC

Zone 21, Group IIIC

UL 1598 Wet Locations

UL 1598A Marine Outside Type (Salt Water)

5G vibration

IP66& IP67

IK10 (PC) /IK08 (Glass)

Salt Spray 720 hrs (ISO 9227)

## **CERTIFICATIONS**

**UL844** 

UL1598

UL8750

UL 1598A

CSA C22.2 No. 137-18

CSA C22.2 No. 250.0

CSA C22.2 No. 250.13

FCC Part 15, Subpart B

DLC Premium\*

<sup>\*</sup> Not all product variations listed on this page are DLC qualified. Visit <a href="https://www.designlights.org/search">www.designlights.org/search</a> to confirm qualification.

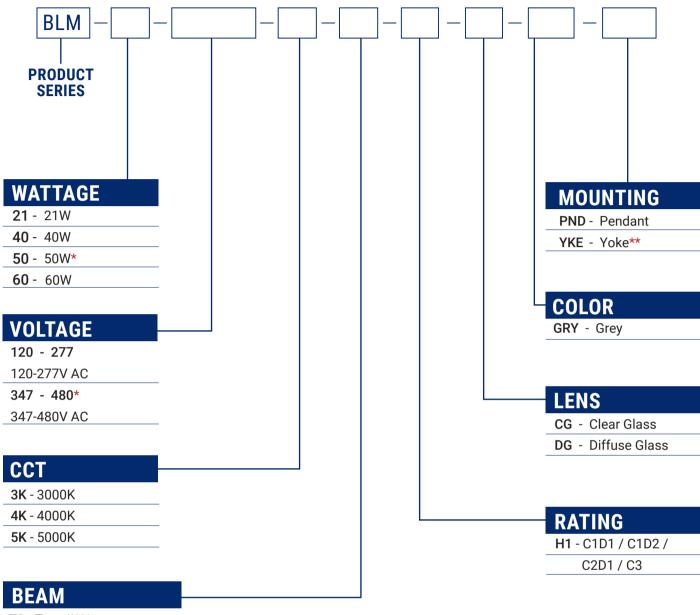
# **TECHNICAL PARAMETERS**

Specification	BLM-H1-21	BLM-H1-40	BLM-H1-50	BLM-H1-60
	Electrical Parameters			
Power	21W	40W	50W	60W
Rated Input Current(120V AC) Rated Input Current(277V AC) Rated Input Current(347V AC) Rated Input Current(480V AC)	0.194A 0.084A / /	0.370A 0.160A / /	/ / 0.160A 0.115A	0.555A 0.240A / /
Voltage/Frequency	120-277V AC	120-277V AC	347-480V AC	120-277V AC
Power Factor			≥0.90	
THD			<20%	
L70		219,000 hrs@149	°F	127,000 hrs@147°F
Dimming		0-10	V, Range 10-100%	
Surge Protection	2k	(V	64	(V
Supply Wire		12-18	AWG,Rated 90°C	
Warranty		LEDs: 10	years, Driver: 7 years	
	C	ptical Parame	ters	
Lumen Output*	4,220Lm	6,499Lm	7,179Lm	8,514Lm
Lumen Efficacy*			162Lm/W	
Available Beam Angle			T2/T3/T5	
Correlated Color Temperature (CCT)		300	0K/4000K/5000K	
Color Rendering Index (CRI)			Ra>70	
	Me	echanical Para	meters	
Housing Material		Copper-free (<	0.4%) die-cast aluminum	
Hardware		St	ainless steel 316	
Lens Material		T	empered Glass	
Mounting Options			Pendant, Yoke	
Product Weight	10.5lbs/4.8kg	10.8lbs/4.9kg	11.7lbs/5.3kg	11.7lbs/5.3kg
Package Weight	12.6lbs/5.8kg	12.9lbs/5.9kg	13.8lbs/6.3kg	13.8lbs/6.3kg
Cable Entry		(1) 3/4" NPT w/3	' 18/6 Leads (L/N/G,Dim+	/Dim-/12V)
Product Dimensions(L×W×H)	9.7×8.3×5.1in (245×210×129mm)			
Package Dimensions(L×W×H)	13.4×11×8.3in (340×280×210mm)			
	Env	ironmental Par	ameters	
Ambient Operating Temperature	-40	°C~+65°C(-40°F~	+149°F)	64°C(147°F)
T-Code Rating	C1D1-T6, CID2-T4A, CIID1-T6 C1D1-T6, CID2-T4, CIID1-T6 C1D1-T5, CID2-T4, CIID1-T5			C1D1-T5, CID2-T4, CIID1-T5
EPA wind rating (FT2)	0.998 (Yoke)			

<sup>\*</sup> Value calculated based on 5000K and Clear glass ,varies to differrent spec.

### **NORDERING INFORMATION**





T2 - Type II\*\*\*

T3 - Type III\*\*\*

T5 - Type V (NEMA 6 - Wide)

- \* 50W only with 347-480V AC, 347-480V AC only with 50W
- \*\* BLM-YOKE Pre-installed
- \*\*\* Only available with Clear Glass Option

# **MOUNTING ACCESSORIES**



Mounting Method	PN	Description	MPN Code
Yoke	BLM-YOKE	Yoke Mount, SUS304, Powder-Coated Grey RAL 7037	310010032
	BLM-WGG	Wire Guard for Globe Lens, SUS304	310010034
	SFCB02	Safety Cable Kit, SUS304	309050058
	SP3	Surge Protector, 100-277V	310010029
	SP4	Surge Protector, 347-480V	310010030

# REPLACEMENT PARTS (ORDERED SEPARATELY)

Part Number	Description	MPN Code
BLM-21-120-277-Driver	Replacement Driver Kit for BLM-21-120-277 Fixtures	303010016
BLM-40-120-277-Driver	Replacement Driver Kit for BLM-40-120-277 Fixtures	303010017
BLM-60-120-277-Driver	Replacement Driver Kit for BLM-60-120-277 Fixtures	303010018
BLM-50-347-480-Driver	Replacement Driver Kit for BLM-50-347-480 Fixtures	303010019
CG001-A-01	Replacement Clear Glass Lens for BLM H1/BLM H2	303030001
DG001-A-01	Replacement Diffuse Glass Lens for BLM H1/BLM H2	303030002



Part Number	Power (W)	ССТ	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
	Vol	tage 120-	277V AC			
BLM-21-120-277-5K-T2-H1-CG-GRY-PND	21	5000K	T2	Clear Glass	3,364	156
BLM-21-120-277-5K-T3-H1-CG-GRY-PND	21	5000K	Т3	Clear Glass	3,210	148
BLM-21-120-277-5K-T5-H1-CG-GRY-PND	21	5000K	T5	Clear Glass	4,220	162
BLM-21-120-277-5K-T5-H1-DG-GRY-PND	21	5000K	T5	Diffuse Glass	2,824	131
BLM-40-120-277-5K-T2-H1-CG-GRY-PND	40	5000K	T2	Clear Glass	6,162	153
BLM-40-120-277-5K-T3-H1-CG-GRY-PND	40	5000K	Т3	Clear Glass	5,991	149
BLM-40-120-277-5K-T5-H1-CG-GRY-PND	40	5000K	T5	Clear Glass	6,499	161
BLM-40-120-277-5K-T5-H1-DG-GRY-PND	40	5000K	T5	Diffuse Glass	5,207	130
BLM-60-120-277-5K-T2-H1-CG-GRY-PND	60	5000K	T2	Clear Glass	8,113	147
BLM-60-120-277-5K-T3-H1-CG-GRY-PND	60	5000K	Т3	Clear Glass	7,839	143
BLM-60-120-277-5K-T5-H1-CG-GRY-PND	60	5000K	T5	Clear Glass	8,514	154
BLM-60-120-277-5K-T5-H1-DG-GRY-PND	60	5000K	T5	Diffuse Glass	7,132	122
	Vol	tage 347-	480V AC			
BLM-50-347-480-5K-T2-H1-CG-GRY-PND	50	5000K	T2	Clear Glass	6,949	146
BLM-50-347-480-5K-T3-H1-CG-GRY-PND	50	5000K	Т3	Clear Glass	6,520	137
BLM-50-347-480-5K-T5-H1-CG-GRY-PND	50	5000K	T5	Clear Glass	7,179	151
BLM-50-347-480-5K-T5-H1-DG-GRY-PND	50	5000K	T5	Diffuse Glass	5,881	124

For additional information, please contact your sales representative.

# **A DIRECT RETROFIT FROM HID TO LED**

The BLM series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 60-watt Block Mini (BLM-60) delivers virtually the same illumination as its equivalent 250 watt HPS luminaire while providing 80% reduction in energy costs and up to 130,000 hours of continuous operation.

MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
BLM-21	4,220	100	150
BLM-40	6,500	150	200
BLM-50	7,180	175	225
BLM-60	8,515	200	250

## THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

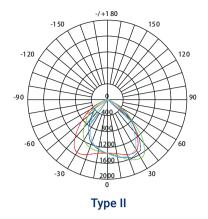
RSL optic package is engineered to deliver maximum footcandles efficiently where you need them, without wasted light or overspill.

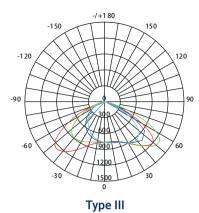
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize energy savings—all within budget.

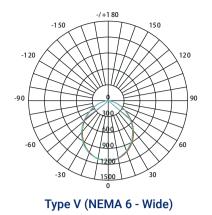
Simply fill out the form ( https://dev.redskylighting.com/lighting-design ) with a few key details, request a layout, and we'll bring your ideas to life within 2-5 business days.

Beam	NEMA/IESNA Type	Beam Description	Beam Projection Distance
30°	NEMA 3	Medium Narrow	
60°	NEMA 4	Medium	
90°	NEMA 5	Medium Wide	
120°	NEMA 6	Wide	-
T1	Туре І	Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aisleways, Catwalks, Loading docks and Tunnels.	
T2	Type II	Asymmetric distributions, well suited for narrow areas, such as roadways, paths and driveways.	
Т3	Type III	Asymmetric distributions, well suited for site / area perimeters, wide roadways, and open areas.	
Т5	NEMA 7 Type V (Square)	Very Wide: symmetrical pattern with excellent uniformity for large, open areas.	

# **NPHOTOMETRIC**

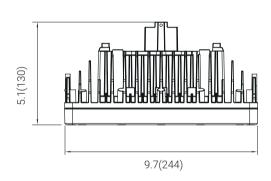


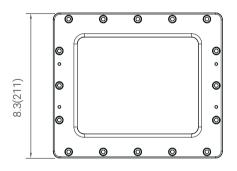




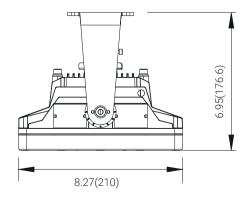
# **DIMENSIONS**

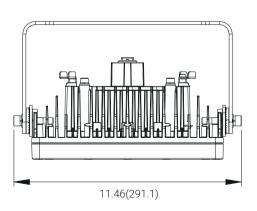
unit: in(mm)





**Pendant** 





Yoke

# **NAME OF THE PROPERTY OF THE P**

#### **N** Atmosphere Groups

#### **№** Temperature Classification

Substance	Hazard Class	Division Groups	Zone Groups	Max. Surface Temperatures	N
Acetylene		Group A	IIC	450°C(842°F)	
Hydrogen	Class I	Group B	IIC	300°C(572°F)	
Ethylene	Flammable	Group C	IIB	280°C(536°F)	
Propane	Gases	Group D	IIA	260°C(500°F)	
Methane		Group D	IIA <sup>2</sup>	230°C(446°F)	
Combustible Metal Dusts		Group E <sup>1</sup>	IIIC3	215°C(419°F)	
Combustible Carbonaceous Dust	Class II	·	IIIB <sup>3</sup>	200°C(392°F)	
	Combustible	Group F	IIID	180°C(256°F)	
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)	Dusts	Group G	IIIB <sup>3</sup>	165°C(329°F)	
,	Class III Fibers			160°C(320°F)	
Combustible Fibers and Flyings	and Flyings	Not Applicable	IIIA <sup>3</sup>	135°C(275°F)	
Note 1: Group E is applicable to Class II, Division 1 only.				120°C(248°F)	
Note 2: Methane is a Group IIA Gas for no	n-mining application	S.		100°C(212°F)	

Max. Surface Temperatures	NEC®500 CEC®	NEC®500/IEC- Group II
450°C(842°F)	T1	T1
300°C(572°F)	T2	11
280°C(536°F)	T2A	
260°C(500°F)	T2B	T2
230°C(446°F)	T2C	12
215°C(419°F)	T2D	
200°C(392°F)	T3	
180°C(256°F)	T3A	Т3
165°C(329°F)	ТЗВ	
160°C(320°F)	T3C	
135°C(275°F)	T4	т.
120°C(248°F)	T4A	T4
100°C(212°F)	T5	T5
85°C(185°F)	T6	T6

#### Classification of Divisions and Zones

Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.

Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	District 4	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard	Division 1	Zone 1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone 2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

#### **№ IP Codes**

1st No.	Solid Objects
0	No protection
1	Objects greater than 50mm
2	Objects greater than 12.5mm
3	Objects greater than 2.5mm
4	Objects greater than 1mm
5	Dust protected
6	Dust proof
2nd No.	Liquids
0	No protection
1	Vertically dripping
2	Dripping up to 15°
3	Limited spraying
4	Splashing from all directions
5	Hosing jets from all directions
6	Strong hosing jets from all directions
7	Temporary immersion
8	Continuous immersion
9	Steam-jet cleaning

#### ■ IK Ratings

IK Code	Level of Protection Achieved
IK00	Not protected
IK01	Protected against 0.14 joules impact
IK02	Protected against 0.2 joules impact
IK03	Protected against 0.35 joules impact
IK04	Protected against 0.5 joules impact
IK05	Protected against 0.7 joules impact
IK06	Protected against 1 joules impact
IK07	Protected against 2 joules impact
IK08	Protected against 5 joules impact
IK09	Protected against 10 joules impact
IK10	Protected against 20 joules impact



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#### **Disclaimer**

The product information provided is, to the best of Red Sky Lighting's knowledge, accurate as of the date of publication. However, purchasers and end-users of Red Sky Lighting's products should refer to the documentation available on www.redskylighting.com for the most up-to-date and controlling product specifications, installation manuals, sales terms and conditions, and warranty terms. To the extent any contract is formed for the sale of Red Sky Lighting's products, whether directly with Red Sky Lighting or through any third party, the versions of such documentation posted on www.redskylighting.com as of the date of sale shall govern and prevail over any inconsistent information that may be provided elsewhere. In the event of a conflict between the information contained in this document and that available on www.redskylighting.com, the website documentation shall control.