RED SKY

SERIOUSLY SAFE LIGHTS™

BLOCK SERIES C1

Technical Specification Sheet





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

FAST DELIVERY

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

TOP-NOTCH SERVICES

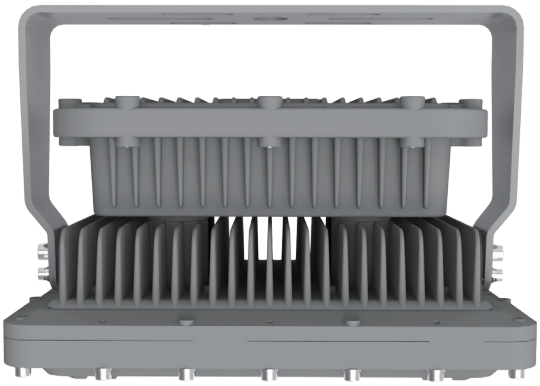
- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

SUSTAINABLE SOLUTIONS

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



FEATURES



Excellent Heat Dissipation

Self-contained LED and Driver compartment with external air-flow fins provide exceptional heat dissipation to ensure long lifespan

Easy and Through Wiring

Built-in wiring compartment with two NPT ¾" entries and WAGO 221 lever connectors for easy wiring (UL/CSA 20-10AWG)

RATINGS

Zone 1&2

Zone 21&22

CERTIFICATIONS

IECEx
Ex db IIB T6 Gb
Ex tb IIIC T85°C Db
-25°C ≤ Ta≤+50°C
UKEX
II 2G Ex db IIB T6 Gb
II 2D Ex tb IIIC T85°C Db
CE

TECHNICAL PARAMETERS

Specification	BLK-C1-80	BLK-C1-100	BLK-C1-150
Electrical Parameters			
Power	80W	100W	150W
Voltage/Frequency	100-240V AC, 50/60Hz		
Power Factor	>90%		
THD	<20%		
L70	140,000 Hours@50°C		
Surge Protection	4KV		
Warranty	LEDs: 10 years， Driver: 5 years		
Optical Parameters			
Lumen Output*	10,288Lm	12,274Lm	18,646Lm
Lumen Efficacy*	130Lm/W		
Available Beam Angle	120°		
Correlated Color Temperature (CCT)	4000K/5700K		
Color Rendering Index (CRI)	Ra>70		
Mechanical Parameters			
Finish	Thermoset Powdercoat		
Hardware	Stainless steel 316		
Lens Material	Clear Glass		
Mounting Options	Yoke, Stanchion		
Product Weight	33.5lbs/15.2kg	33.7lbs/15.3kg	34.2lbs/15.5kg
Cable Entry	(2) 3/4" NPT		
Product Dimensions(L×W×H)	12.9×10.7×6.9in (328×271×176mm)		
Environmental Parameters			
Ambient Operating Temperature	-25°C ~ +50°C		
T-Code Rating	Gas – T6, Dust – 85°C		

* value calculated based on 5700K and clear glass ,varies to differrent spec.

ORDERING INFORMATION

EXAMPLE: BLK-80-100-240-57K-HAR-120-C1-CG-GRY-YKE

BLK — 80 — 100-240 — 57K — HAR — 120 — C1 — CG — GRY — YKE

PRODUCT SERIES

WATTAGE

80 - 80W

100 - 100W

150 - 150W

VOLTAGE

100 - 240

100-240V AC

CCT

4K - 4000K

57K - 5700K

INTERNAL CODE

MOUNTING

YKE - Yoke

AVBY - Anti-vibration Yoke

360Y - 360 Yoke

COLOR

GRY - Grey

LENS

CG - Clear Glass

RATING

C1 - Zone1, 21

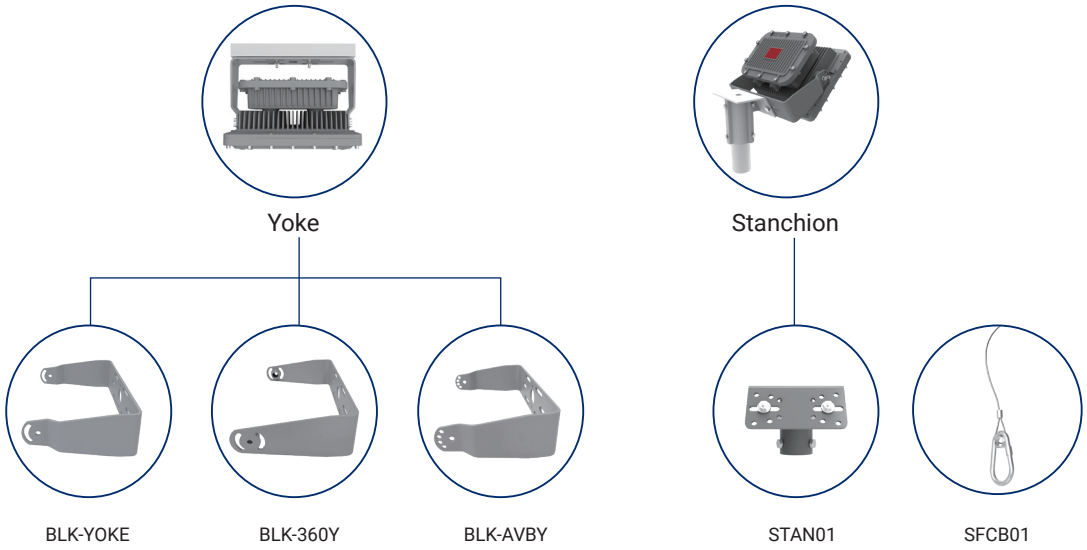
BEAM

120 - 120°

60 - 60°

25 - 25°

MOUNTING ACCESSORIES



Mounting Method	PN	Description	MPN Code
Yoke	BLK-YOKE	Yoke Mount BLK SERIES, SS304. Power Coated Grey RAL7037	309050055
	BLK-360Y	360" rotation Yoke Mount. BLK SERIES. SS304. Power Coated Grey RAL7037	201010115
	BLK-AVBY	Anti-vibration Yoke Mount, BLK SERIES, SS304, Power Coated Grey RAL7037	309050298
Stanchion	STAN01*	Slip-Fit Stanchion Mount Kit. BLK SERIES. SS304. Power Coated Grey RAL7037	309050300
	SFCB01	Safety Cable Kit, BLK & RDX SERIES, SS304	106060018

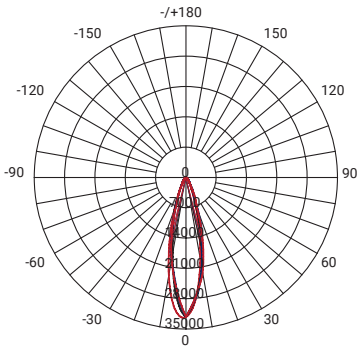
* Requires A Yoke Mount

LUMEN TABLE

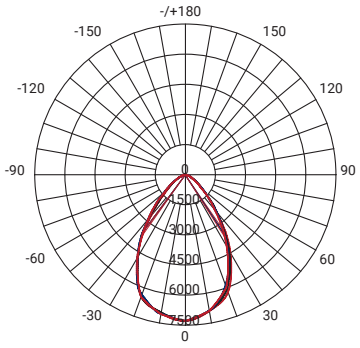
Part Number	Wattage (W)	CCT	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 100-240V AC						
BLK-80-100-240-57K-HAR-120-C1-CG-GRY-YKE	80	5700K	120	Clear Glass	10,288	124
BLK-80-100-240-57K-HAR-60-C1-CG-GRY-YKE	80	5700K	60	Clear Glass	10,386	127
BLK-80-100-240-57K-HAR-25-C1-CG-GRY-YKE	80	5700K	25	Clear Glass	10,693	130
BLK-100-100-240-57K-HAR-120-C1-CG-GRY-YKE	100	5700K	120	Clear Glass	12,274	124
BLK-100-100-240-57K-HAR-60-C1-CG-GRY-YKE	100	5700K	60	Clear Glass	12,679	129
BLK-100-100-240-57K-HAR-25-C1-CG-GRY-YKE	100	5700K	25	Clear Glass	13,144	133
BLK-150-100-240-57K-HAR-120-C1-CG-GRY-YKE	150	5700K	120	Clear Glass	18,646	122
BLK-150-100-240-57K-HAR-60-C1-CG-GRY-YKE	150	5700K	60	Clear Glass	19,070	125
BLK-150-100-240-57K-HAR-25-C1-CG-GRY-YKE	150	5700K	25	Clear Glass	19,894	131

For additional information, please contact your sales representative.

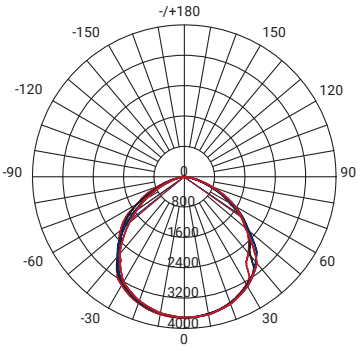
PHOTOMETRIC



25°



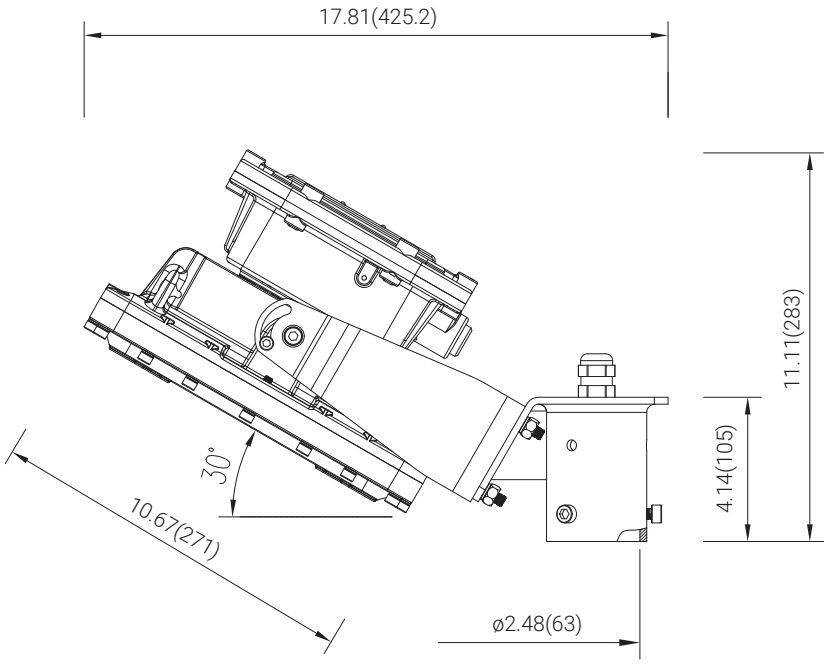
60°



120°

DIMENSIONS

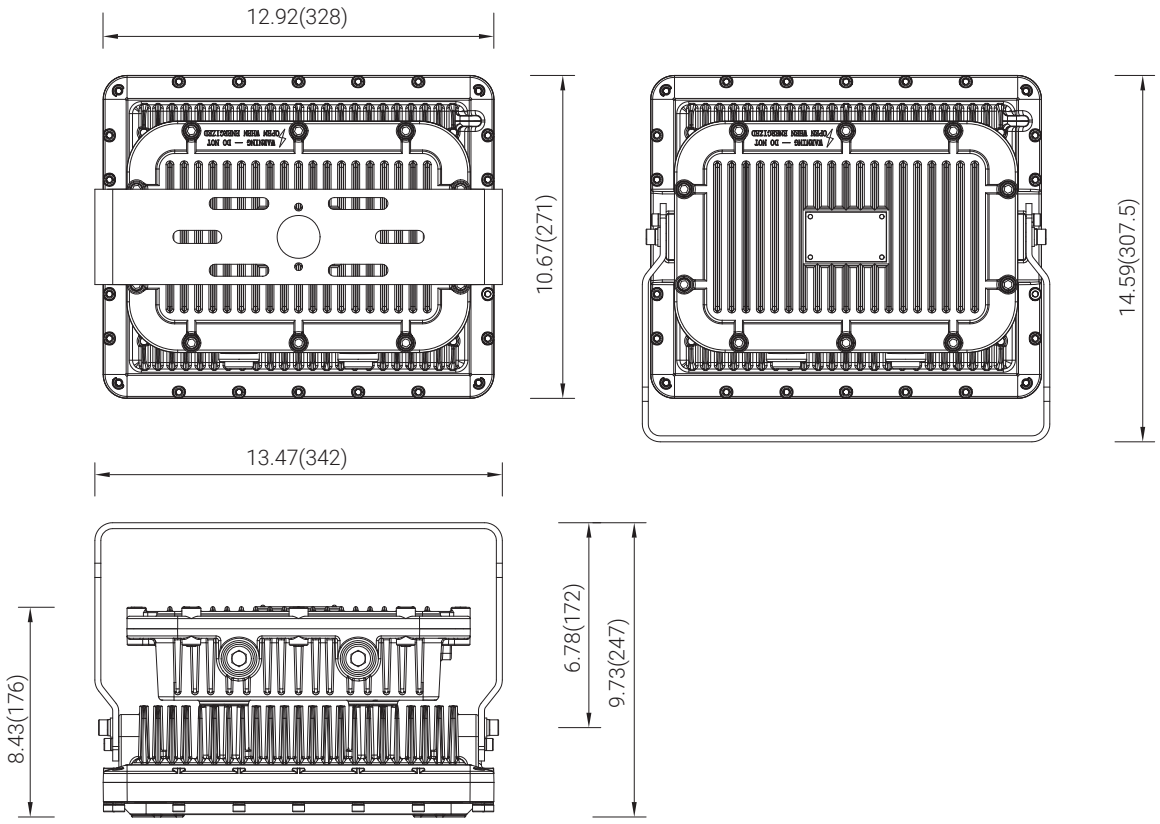
unit: in(mm)



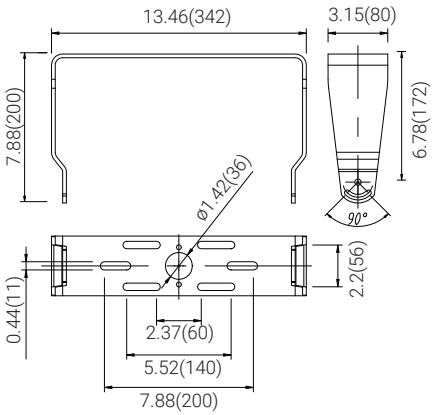
Stanchion

DIMENSIONS

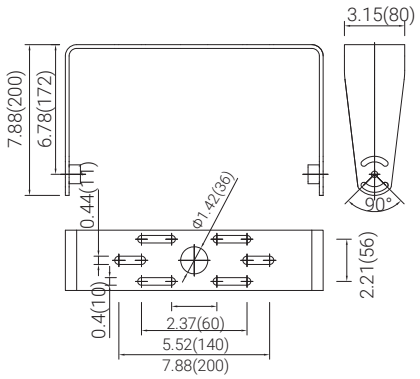
unit: in(mm)



Yoke



BLK-YOKE



YOKE-360Y

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Substance	Hazard Class	Division Groups	Zone Groups
Acetylene	Class I Flammable Gases	Group A	IIC
Hydrogen		Group B	IIC
Ethylene		Group C	IIB
Propane		Group D	IIA
Methane		Group D	IIA[2]
Combustible Metal Dusts	Class II Combustible Dusts	Group E[1]	IIIC[3]
Combustible Carbonaceous Dust		Group F	IIIB[3]
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB[3]
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA[3]

Note 1: Group E is applicable to Class II, Division 1 only.
Note 2: Methane is a Group IIA Gas for non-mining applications.
Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.

Temperature Classification

Max. Surface Temperatures	NEC®500 CEC®	NEC®500/IEC-Group II
450(842)	T1	T1
300(572)	T2	
280(536)	T2A	T2
260(500)	T2B	
230(446)	T2C	
215(419)	T2D	
200(392)	T3	T3
180(256)	T3A	
165(329)	T3B	
160(320)	T3C	
135(275)	T4	T4
120(248)	T4A	
100(212)	T5	T5
85(185)	T6	T6

Classification of Divisions and Zones

Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	Division 1	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard		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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1(262) 456-5002
contact@redskylighting.com
www.redskylighting.com

RED SKY LIGHTING LLC
9370 Pittsburgh Ave Rancho
Cucamonga, CA 91730, USA

Disclaimer

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