

Falcon
High Power COB

WTK-71S | WHK-71S | MO-N71S | MO-R71S

Fixture Type: _____
Project: _____
Catalog#: _____
Location: _____



LINE DRAWING		
Track (WTK-71S, WHK-71S)	New Construction (MO-N71S)	Remodel (MO-R71S)

PRODUCT DESCRIPTION
Museum-grade track luminaire engineered for precise beam control and glare management. Designed for galleries and curated environments.

SPECIFICATIONS	
Construction:	Injection molded polycarbonate low glare trim
Mounting:	Track mounted (WTK, WHK); ceiling mounted (MO) Ceiling cut out: Ø 4 1/2"  Accommodates 1/2" - 2" ceiling thickness
Light Source:	High output 3-step Mac Adam Ellipse COB Rated life of 50,000 hours at L70
Input:	120 VAC (WTK), 277 VAC (WHK), 120-277 VAC (MO)
Power:	16W
Dimming:	ELV, TRIAC, BLE, and 0-10V: 100 - 1%
Operating Temperature:	-4°F to 104°F (-20°C to 40°C)
Standards:	UL & cUL
Warranty:	5 year WAC Lighting guaranteed warranty

BEAM ANGLES							
							
V - 11°	S - 15°	N - 24°	M - 36°	F - 40°	A - Asym	G - Grazer	E - Elongated

FINISHES	
	
Black BK	White WT

Model	Beam	Lumens Ref Output*	CBCP	Efficacy (lm/W)
WTK-71S WHK-71S Ø4.8125" MO-N71S Ø122mm MO-R71S	V 11°	660	15,522	44
	S 15°	562	6,874	37
	N 24°	951	5,157	63
	M 36°	954	3,302	63
	F 40°	976	1,695	58
	A Asym	741	962	49
	G 18° X 52°	531	2,573	35
	E 13° X 45°	518	2,568	34

*Lumens and CBCP are reference values for fixtures set to 3000K Color Temperature. Refer to Multiplier Table in Performance Data to determine other outputs.



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ORDERING INFORMATION

CONFIGURATION TABLE			
Model & Power	Beam Angle	Color Temperature & CRI	Housing Finish
WTK-71S (120V)	V - Very Narrow	927 - 2700K	BK - BLACK
WHK-71S (277V)	S - Spot	930 - 3000K	WT - WHITE
MO-N71S (120-277V)	N - Narrow Flood	935 - 3500K	
MO-R71S (120-277V)	M - Medium Flood	940 - 4000K	
	F - Flood		
	A - Asymmetric (Wall Wash)		
	G - Grazer		
	E - Elongated		

W_K-71S-_____

Example: WTK-71S-S930WT

MO-_71S-_____

Example: MO-N71S-M930BK

ACCESSORIES			
M-TL71-FC-STD-BK	Falcon TL71 Front Cover Standard Beam	M-TL71-FILM-5D	Falcon TL71 Diffuser Film 5°
M-TL71-FC-WW-BK	Falcon TL71 Front Cover Wall Wash	M-TL71-FILM-20D	Falcon TL71 Diffuser Film 20°
M-TL71-PRIS-15	Falcon TL71 Prismatic Lens S		
M-TL71-PRIS-13X45	Falcon TL71 Prismatic Lens E		
M-TL71-PRIS-18X52	Falcon TL71 Prismatic Lens G		
M-TL71-LENS-07	Falcon TL71 Lens Assembly 7°		
M-TL71-LENS-20	Falcon TL71 Lens Assembly 20°		
M-TL71-LENS-30	Falcon TL71 Lens Assembly 30°		
M-TL71-LENS-40	Falcon TL71 Lens Assembly 40°		
M-TL71-LENS-WW	Falcon TL71 Lens Assembly Wall Wash		
M-TL71-LED-27	Falcon TL71 LED Module 2700K		
M-TL71-LED-30	Falcon TL71 LED Module 3000K		
M-TL71-LED-35	Falcon TL71 LED Module 3500K		
M-TL71-LED-40	Falcon TL71 LED Module 4000K		
M-FAL-MO-NCONST-BK	New Construction Monopoint Kit - Black		
M-FAL-MO-NCONST-WT	New Construction Monopoint Kit - White		
M-FAL-MO-REM-BK	Remodel Monopoint Kit - Black		
M-FAL-MO-REM-WT	Remodel Monopoint Kit - White		

ORDERING NOTES

1. The WTK-71S fixture is 120V and the WHK-71S fixture is 277V. Both fixtures are track mounted.
2. The MO-N71S fixture is a ceiling mounted monopoint fixture for New Construction installations. The MO-R71S fixture is a ceiling mounted monopoint fixture for Remodel installations.

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FEATURES

Optics: • Fixture features robust anti-glare capabilities with a SUBROSA optical system that creates a 30° shielding angle	Construction: • Die-cast aluminum body
LED: • High output COB LED with a 3-step Mac Adam ellipse • Rated operational life of 50,000 hours at L70 (LED maintains 70% of its initial delivered lumens when brand new for 50,000 hours of use.)	Trim and Reflector: • Eight beam angles are available: Very Narrow, Spot, Narrow Flood, Medium Flood, Flood, Asymmetric (Wall Wash), an 18° x 52° Wall Grazer, and a 13° x 45° Elongated beam
Electrical: • Input power is 120 VAC (WTK), 277 VAC (WHK), 120-277 VAC (MO) • Available at a 16W power level	Installation: • Suitable for W track systems
Dimming: • Electronic low voltage (ELV), TRIAC, and BLE dimming available	Warranty: • WAC Architectural limited warranty up to 5 years • Full warranty found at: waclighting.com/warranty
Notes: • The White and Black finishes for the body are electrostatically powder coated	

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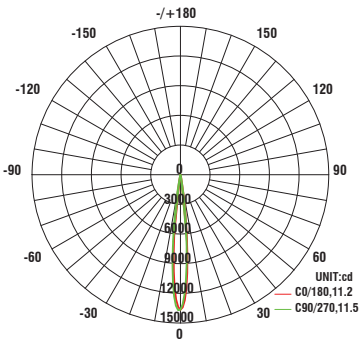
Location:

PERFORMANCE DATA

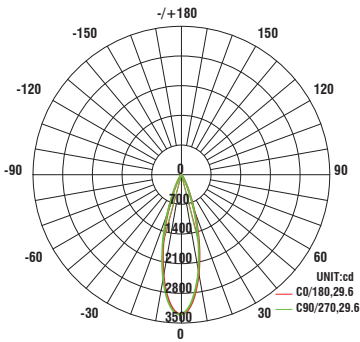
Polar Candela Distribution Charts

Samples shown with a fixture set to 3000K.

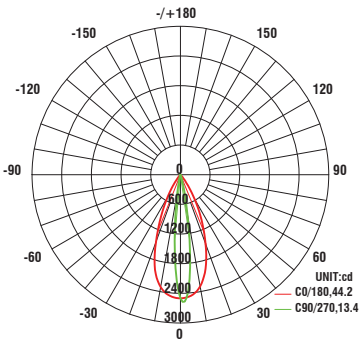
Very Narrow Beam: 11° Beam



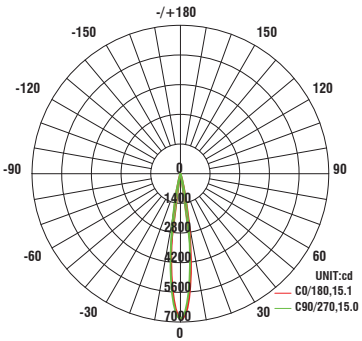
Medium Flood Beam: 36° Beam



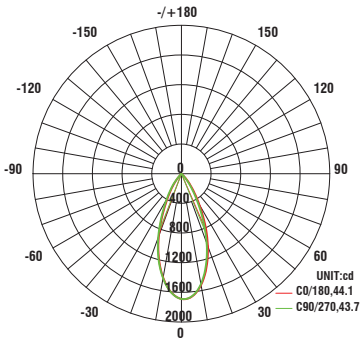
Grazer Beam: 18° X 52° Beam



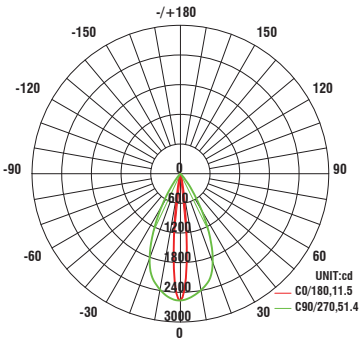
Spot Beam: 15° Beam



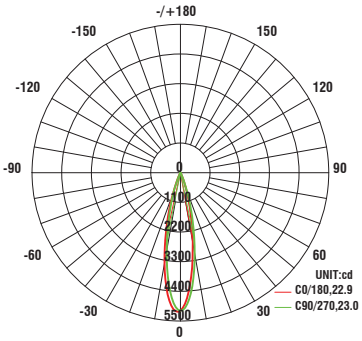
Flood Beam: 40° Beam



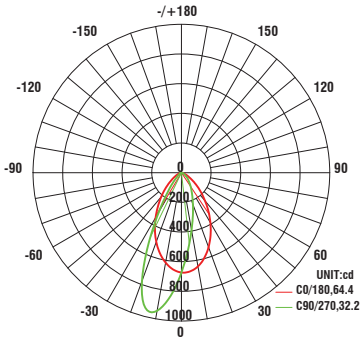
Elongating Beam: 13° X 45° Beam



Narrow Flood Beam: 24° Beam



Wall Wash Beam: Asymmetric



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PERFORMANCE DATA

Unified Glare Rating (UGR) Table

UGR values shown are calculated for a fixture at 3000K and 90 CRI.

Round Fixture	Angle	UGR Range
Very Narrow	11°	≤0
Spot	15°	≤0
Narrow Flood	24°	≤2
Medium Flood	36°	≤10
Wide Flood	55°	≤19
Wall Wash	Asymmetric	≤25
Grazer	18° x 52°	≤15
Elongating	13° x 45°	≤17

Lumens and CBCP Multiplier Table

Use the below table to determine lumens and CBCP values for the combinations of power, color temperature, and CRI values.

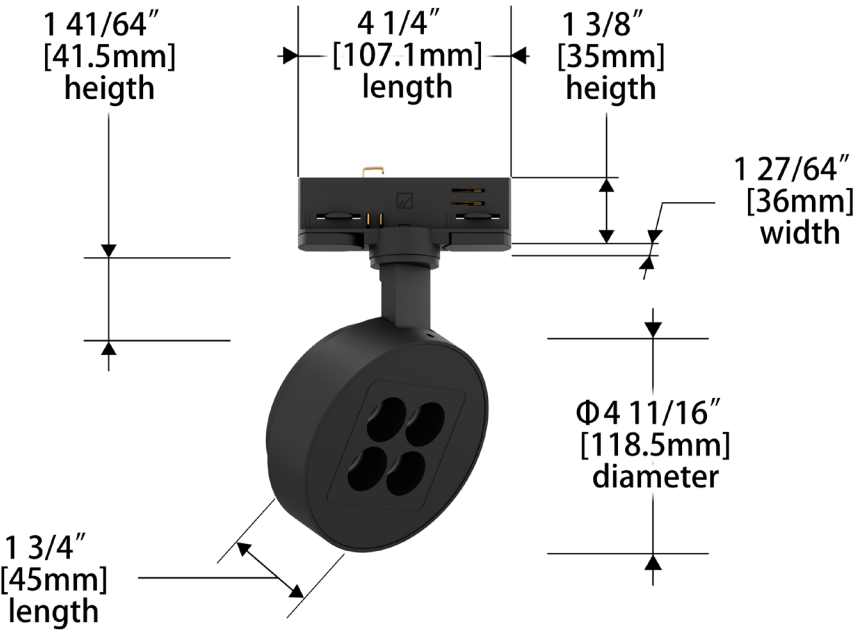
Color Temperature			
2700K	3000K	3500K	4000K
0.93	1.00	1.04	1.04

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DIMENSIONAL DIAGRAMS



Falcon

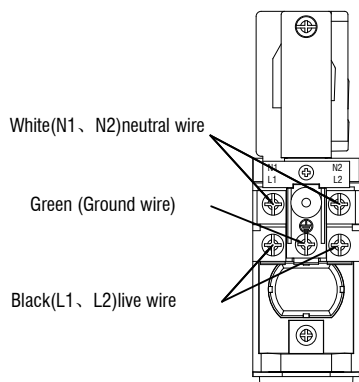
High Power COB

WTK-71S | WHK-71S | M0-N71S | M0-R71S

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WIRING DIAGRAM

Schematic diagram of track inlet power connection.



Reference diagram for track and track connector circuit.

