

COOPER LIGHTING - METALUX®

DESCRIPTION

The WS Series is a specification wraparound luminaire featuring energy efficient performance. The luminaire's characteristic clean, low profile design is both appealing and practically functional. The WS Series utilizes a clear, low brightness, extruded acrylic refractor with injection molded end caps for high performance and good looks.

The efficient and stylish WS Series is the perfect wraparound for commercial spaces, schools, dormitories, offices and retail areas.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

Construction

Housing die formed code gauge prime cold rolled steel. Six full length ribs for strength. Embossed pad under ballast for better heat dissipation. 3/8" stand off embossments for cooler operation and low density applications. Ballast cover easily removed without tools. Steel end plates with 7/8" KO and light-seal embossment. Couplers for continuous row mounting. Optional decorative end plate available.

Electrical*

Ballasts are CBM/ETL Class "P" and are positively secured by mounting bolts. Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white enamel finish.

Frame/Shielding

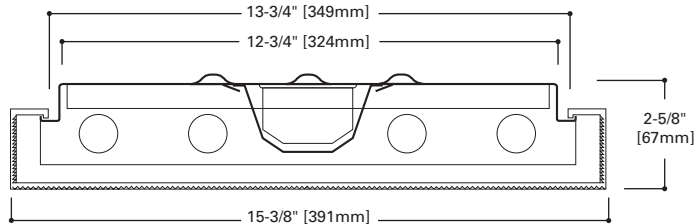
100% clear full thickness virgin acrylic prismatic refractor/lens. Permanent luminous injection molded end caps. Sides have inside linear prisms and bottom has pyramidal prisms for low brightness control. Lens can be hinged from either side in a lift and shift manner.



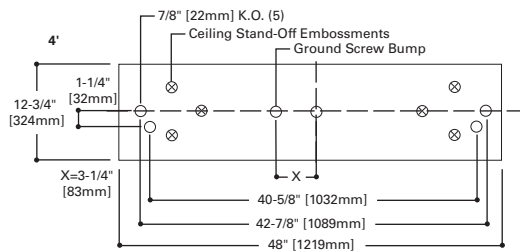
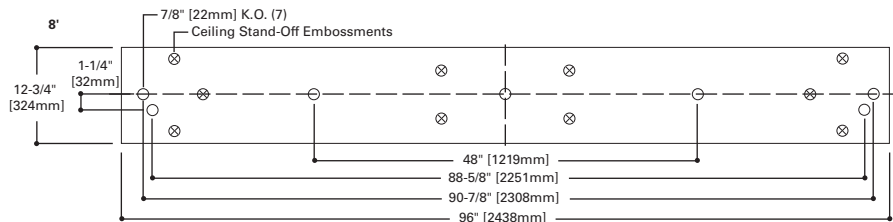
**WS
432**

**4' OR 8' SURFACE
4 LAMPS**

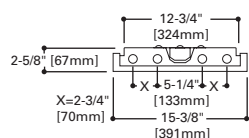
Specification Wrap



MOUNTING DATA

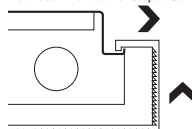


LAMP CONFIGURATIONS



LIFT & SHIFT REFRACTOR

Easily Removed. Hinges Either Side
Not Recommended For Sloped Ceiling Applications.)



ENERGY DATA

Input Watts:
EB Ballast & STD Lamps
432 (122)

ES Ballast & STD Lamps
432 (142)

Luminaire Efficacy Rating
LER = FW-70
Catalog Number: WS-432A
Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$3.43

*Reference the lamp/ballast data in the
Technical Section for specific lamp/ballast
requirements.

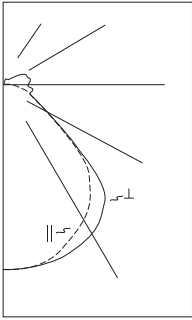
**LAMPS CONTAIN MERCURY. DISPOSE ACCORDING
TO LOCAL, STATE OR FEDERAL LAWS**

LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.



PHOTOMETRICS



WS-432A
 Energy Saving Ballast
 F32T8/35K Lamps
 2850 Lumens
 Spacing criterion: (H) 1.3 x mounting height, (L) 1.4 x mounting height
 Efficiency 76.3%
 Test Report: WS432A.IES
 LER = FW-70
 Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.43

Coefficients of Utilization

rc	Effective floor cavity reflectance								20%															
	80%				70%				50%				30%				10%				0%			
	rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																								
0	89	89	89	89	86	86	86	86	80	80	80	74	74	74	69	69	69	67						
1	81	78	75	72	79	76	73	70	71	68	67	66	64	63	62	61	59	57						
2	75	69	65	61	72	67	63	59	63	60	57	59	56	54	56	53	51	49						
3	69	62	56	52	67	60	55	51	57	52	49	53	50	47	50	47	45	43						
4	64	55	49	45	61	54	48	44	51	46	42	48	44	41	45	42	39	38						
5	59	50	43	39	56	48	42	38	46	41	37	43	39	36	41	37	34	33						
6	54	45	38	34	52	43	38	33	41	36	32	39	35	31	37	33	30	29						
7	50	40	34	29	48	39	33	29	37	32	28	35	31	27	34	30	27	25						
8	46	36	30	26	44	35	29	25	33	28	25	32	27	24	30	26	23	22						
9	42	32	26	22	41	32	26	22	30	25	21	29	24	21	27	23	20	19						
10	39	29	24	20	38	29	23	19	27	22	19	26	22	18	25	21	18	17						

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	2328	20.4	26.8
0-40	3875	34.0	44.6
0-60	6359	55.8	73.1
0-90	7651	67.1	88.0
90-180	1046	9.2	12.0
0-180	8697	76.3	100.0

Typical VCP Percentages

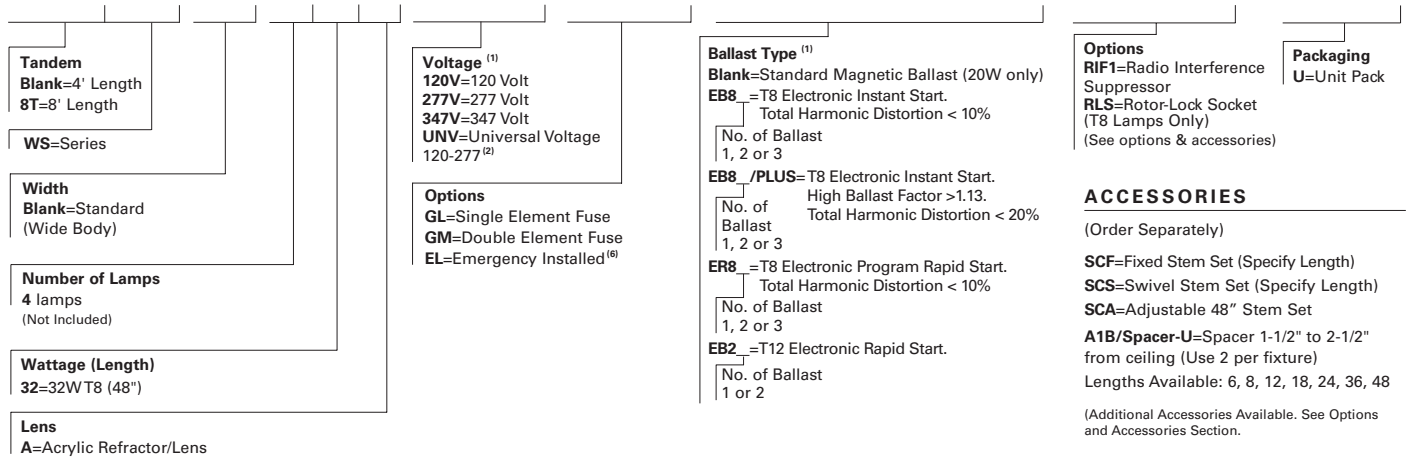
Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	60	65	61	66
30 x 30	53	58	52	57
30 x 60	44	47	38	43
60 x 30	55	59	54	59
60 x 60	45	48	39	44

Candela

Angle	Along H	45°	Across L
0	2909	2909	2909
10	2864	2879	2896
20	2718	2788	2851
30	2474	2612	2713
40	2111	2318	2455
50	1368	1565	1403
60	714	800	758
70	413	488	443
80	230	296	481
90	24	152	369
100	27	249	438
110	34	279	397
120	40	214	311
130	43	135	157
140	44	107	118
150	46	83	107
160	43	59	83
170	37	41	46
180	33	33	33

ORDERING INFORMATION

SAMPLE NUMBER: WS-432A-120V-EB81-U



NOTES: ⁽¹⁾ Products also available in non-US voltages and frequencies for international markets. ⁽²⁾ Not available when specifying emergencies, voltage must be specific. ⁽³⁾ Stem mounting not available on 3-lamp fixtures. ⁽⁴⁾ 2 point suspension recommended for 2 and 4-lamp fixtures. ⁽⁵⁾ Steel endplates with 7/8" KO standard for continuous row mounting. ⁽⁶⁾ Non available for 2' version.

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.
WS-432A	17 lbs.
8TWS-432A	33 lbs.