

COOPER LIGHTING SOLUTIONS - METALUX®

DESCRIPTION

The floating appearance of the Softside Cloud complements any décor with a non-glaring illumination. The low profile of the frameless diffuser allows the fixture to blend in with its surroundings. The Softside Cloud is an ideal choice for a variety of commercial applications.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Housing is manufactured with die formed cold rolled steel. Ends are formed for added strength. Ballast cover is removable without tools.

Finish

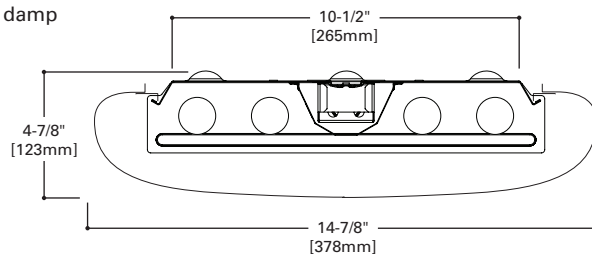
Multistage pre-paint ensures maximum bonding and rust prevention.

Shielding

Utilizes a trademark Tuff'R'Puff commercial grade acrylic lens that is formulated to protect against lens breakage and 'yellowing' discoloration. Snap fit for ease of service and relamping.

Electrical*

Universal Instant Start Commercial Grade Ballast. CBM/ETL Class "P" Listed. UL/cUL listed. Rotor lock lampholders. Suitable for damp locations.

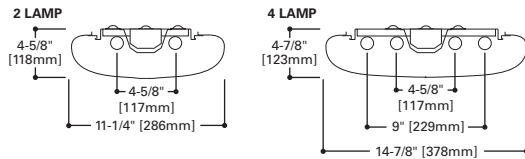


WSC
232
432

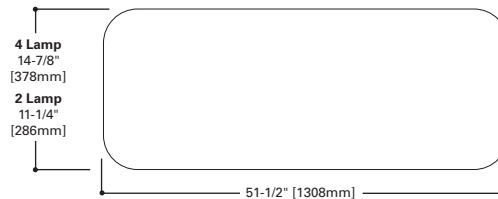
1' X 4', 1-1/2' X 4'
2 OR 4 T8 LAMPS

Modular Fluorescent
Softside Cloud

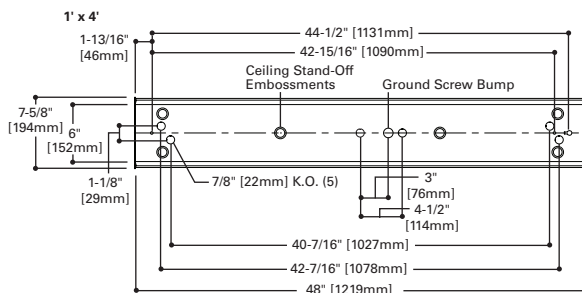
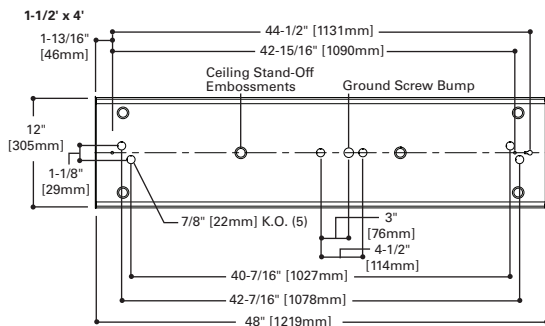
LAMP CONFIGURATIONS



LENS



MOUNTING DATA



ENERGY DATA

Input Watts:
EB Ballast & STD Lamps
232 (54)
432 (110)

Luminaire Efficacy Rating

LER = FL-64

Catalog Number: WSC-232

Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$3.28

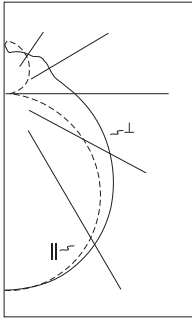
*Reference the lamp/ballast data in the
Technical Section for specific lamp/ballast
requirements.

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

LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.

PHOTOMETRICS

**WSC-232**

Electronic Ballast
(2) F32T8 Lamps
2800 Lumens each
Spacing criterion:
(H) 1.3 x mounting
height, (L) 1.3 x
mounting height
Efficiency 70.5%

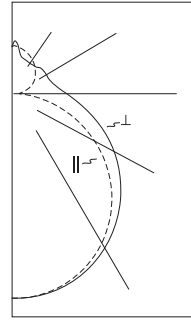
Test Report:
P20017

LER = FL64

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$3.28

Candlepower

Angle	Along H	45°	Across L
0	812	812	812
5	811	811	809
10	802	804	804
15	787	791	794
20	764	772	778
25	735	747	756
30	700	717	730
35	658	682	700
40	611	642	665
45	559	598	628
50	501	551	587
55	440	501	545
60	375	449	504
65	308	399	464
70	240	350	425
75	174	306	387
80	111	265	352
85	58	229	320
90	22	199	290

**WSC-432**

Electronic Ballast
(2) F32T8 Lamps
2800 Lumens each
Spacing criterion:
(H) 1.3 x mounting
height, (L) 1.3 x
mounting height
Efficiency 61.6%

Test Report:
P20021

LER = FL55

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$3.83

Candlepower

Angle	Along H	45°	Across L
0	1544	1544	1544
5	1542	1541	1543
10	1525	1528	1531
15	1496	1502	1510
20	1453	1465	1475
25	1399	1415	1429
30	1333	1355	1373
35	1254	1286	1309
40	1166	1207	1237
45	1069	1121	1159
50	962	1028	1075
55	848	929	988
60	728	828	898
65	604	725	807
70	479	624	715
75	355	526	626
80	238	435	544
85	134	358	473
90	61	299	416

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	50	30	10	0
RCR																								
0	79	79	79	79	75	75	75	75	68	68	68	61	61	61	55	55	55	52						
1	71	67	63	60	67	63	60	58	57	55	52	51	49	47	46	44	43	40						
2	64	58	52	48	60	55	50	46	49	45	42	44	41	38	39	37	35	32						
3	58	50	44	39	55	48	42	38	43	38	35	38	35	32	34	31	29	27						
4	53	44	38	33	50	42	36	32	38	33	29	34	30	27	30	27	24	22						
5	48	39	33	28	46	37	31	27	34	29	25	30	26	23	27	24	21	19						
6	44	35	29	24	42	33	27	23	30	25	22	27	23	20	25	21	18	16						
7	41	32	25	21	39	30	24	20	27	22	19	25	21	18	22	19	16	14						
8	38	29	23	19	36	27	22	18	25	20	17	23	19	16	20	17	14	13						
9	36	26	20	17	34	25	20	16	23	18	15	21	17	14	19	15	13	11						
10	33	24	19	15	31	23	18	14	21	17	13	19	15	13	17	14	12	10						

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	645	11.5	16.3
0-40	1071	19.1	27.1
0-60	1976	35.3	50.1
0-90	2908	51.9	73.7
0-180	3947	70.5	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1885	1769	1654
55	1769	1687	1579
65	1593	1617	1547
75	1317	1619	1575
85	867	1825	1738

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	50	30	10	0
RCR																								
0	70	70	70	70	67	67	67	67	61	61	61	55	55	55	50	50	50	48						
1	63	59	56	54	59	56	54	51	51	49	47	46	45	43	42	41	40	37						
2	57	51	46	43	54	49	45	41	44	41	38	40	37	35	36	34	32	30						
3	51	44	39	35	48	42	38	34	39	35	31	35	32	29	32	29	27	25						
4	47	39	34	29	44	37	32	28	34	30	26	31	27	25	28	25	23	21						
5	43	35	29	25	41	33	28	24	30	26	23	28	24	21	25	22	20	18						
6	39	31	26	22	37	30	25	21	27	23	20	25	21	18	23	20	17	16						
7	36	28	23	19	35	27	22	18	25	20	17	23	19	16	21	18	15	14						
8	34	26	20	17	32	25	20	16	23	18	15	21	17	14	19	16	13	12						
9	32	23	18	15	30	22	18	14	21	17	14	19	15	13	17	14	12	11						
10	30	21	17	13	28	21	16	13	19	15	12	18	14	12	16	13	11	10						

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1225	10.9	17.7
0-40	2029	18.1	29.4
0-60	3719	33.2	53.9
0-90	5334	47.6	77.3
0-180	6902	61.6	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2789	2664	2529
55	2636	2545	2419
65	2414	2431	2331
75	2075	2366	2289
85	1543	2564	2458

ORDERING INFORMATION

SAMPLE NUMBER: WSC-232-D-W-UNV-EB81-U

Series WSC=Softside Cloud	Diffuser/Lens D=Dropped
Number of Lamps 2=2 Lamps (Not Included) 4=4 Lamps (Not Included)	Frame Finish W=White
Wattage (Length) 32=32W T8 (48")	Voltage⁽¹⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt UNV=Universal Voltage 120-277 ⁽²⁾
Options GL=Single Element Fuse GM=Double Element Fuse EL=Emergency Installed ^{(3), (4)}	

Ballast Type⁽¹⁾ EB8 =T8 Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 1 or 2 EB8_/PLUS=T8 Electronic Instant Start. High Ballast Factor >1.13. Total Harmonic Distortion < 10% No. of Ballast 1 or 2 ER8 =T8 Electronic Program Rapid Start.Total Harmonic Distortion < 10% No. of Ballast 1 or 2 ER8_/PLUS=T8 Electronic Program Start. High Ballast Factor >1.13 Total Harmonic Distortion < 10% No. of Ballast 1 or 2 HPT8 Ballast HB8_L=T8 Electronic Instant Start. Low Ballast Factor .77 HB8 =T8 Electronic Instant Start. Ballast Factor .88 HB8_N=T8 Electronic Instant Start. Normal Ballast Factor 1.0 HB8_H=T8 Electronic Instant Start. High Ballast Factor 1.15-1.2 HR8_DIM=T8 Electronic Program Start Step Dimming. Ballast Factor .88 HR8_L=T8 Electronic Program Start. Low Ballast Factor .77 HR8 =T8 Electronic Program Start. Ballast Factor .88 HR8_H=T8 Electronic Program Start. High Ballast Factor 1.15-1.2	Packaging U=Unit Pack
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NOTES: ⁽¹⁾ Products also available in non-US voltages and frequencies for international markets. 120V must be specified with a residential ballast. ⁽²⁾ Not available when specifying emergencies, voltage must be specific. ⁽³⁾ A low profile battery pack is required for installation with standard ballast cover (consult Cooper Lighting Solutions). ⁽⁴⁾ Please specify required voltage, 120V or 277V.

For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Solutions Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.
WSC-232	13 lbs.
WSC-432	17 lbs.