COOPER LIGHTING - METALUX®

DESCRIPTION

The SM Series is a functional and multi-purpose narrow strip family that incorporates premium performance and construction durability. Designed exclusively for T5 fluorescent technology, the SM Series offers both high performance and application versatility. The SM Series is ideal for constricted architectural cove lighting applications.

The SM Series can be the illumination solution in commerical, industrial, retail and residential applications. Fixtures can be used in size restrictive coves, display cases, shops, storage/utility areas, task and general area lighting.

Catalog #		Type
Project		
Comments		Date
Prepared by		

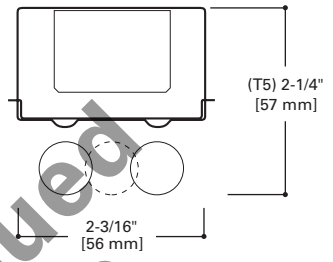
SPECIFICATION FEATURES

Construction
Channel die formed 20 gauge prime cold rolled steel. Numerous KOs for ease of installation. End plate quickly converts to snap-in channel connector for continuous row alignment. Push-in style lampholders snap in to installed tracks. Channel/wireway cover positively secured with mechanical fastener.

Channel/Wireway Cover
Heavy gauge prime cold rolled steel. Tight fit for ease of maintenance.

Electrical*
Ballasts are Class "P" and are positively secured. Rotor-lock lampholders ensure positive lamp retention. UL/CUL listed. Suitable for damp locations.

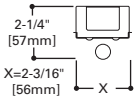
Finish
Multistage iron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting upgrade, baked white enamel finish.



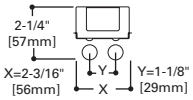
Discontinued
06-10-19

LAMP CONFIGURATIONS

1 LAMP

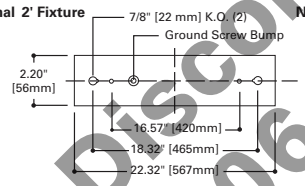


2 LAMP

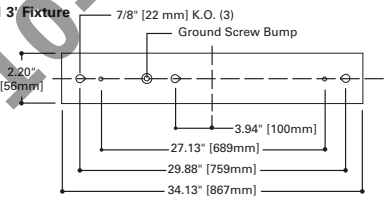


MOUNTING DATA

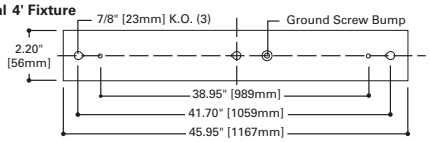
Nominal 2' Fixture



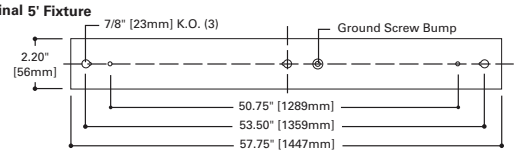
Nominal 3' Fixture



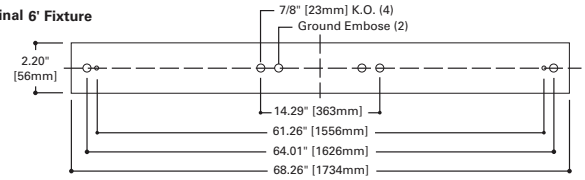
Nominal 4' Fixture



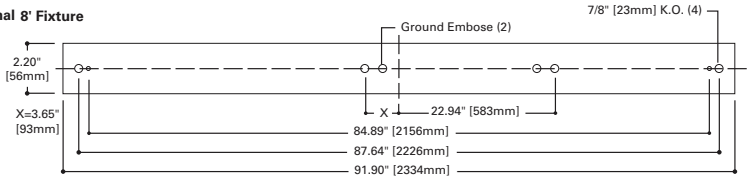
Nominal 5' Fixture



Nominal 6' Fixture



Nominal 8' Fixture





SM
114 214
124 224
121 221
139 239
128 228
154 254
135 235

2', 3', 4', 5', 6' OR 8' STRIP
1 OR 2 LAMP

T5 Micro Striplite

CRICKET
T5 Micro Striplights

ENERGY DATA

Input Watts:
Electronic Ballast & STD Lamps

114 (19)	214 (38)
124 (25)	224 (52)
121 (24)	221 (46)
139 (44)	239 (83)
128 (34)	228 (68)
154 (54)	254 (106)
135 (42)	235 (82)

Luminaire Efficacy Rating
LER = FS-75
Catalog Number: SM-228T5
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $3.20

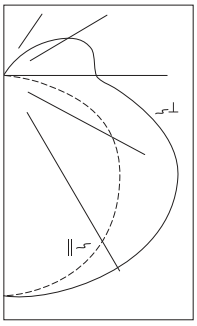
*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

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

LINEAR DISCONNECT
Safe and convenient means of disconnecting power.

Cooper Lighting
by EATON

PHOTOMETRICS



SM-228T5
Electronic Ballast

F28T5/835 Lamps
2900 Lumens

Spacing criterion: (II) 1.3 x mounting height, (⊥) 1.5 x mounting height

Efficiency 86.5%

Test Report: SM228T5.IES

LER = FS-75

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $3.20

Coefficients of Utilization

Effective floor cavity reflectance					20%													
rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	100	100	100	100	96	96	96	96	88	88	88	82	82	82	75	75	75	73
1	89	84	80	76	85	81	77	74	75	72	69	69	66	64	64	62	60	57
2	80	72	66	61	77	70	64	59	64	59	55	59	55	52	55	51	49	46
3	73	63	56	50	70	61	54	48	56	50	46	52	47	43	48	44	41	38
4	66	56	48	42	63	53	46	40	50	43	38	46	41	36	42	38	34	32
5	60	49	41	35	57	47	39	34	43	37	32	40	35	30	37	33	29	27
6	55	43	35	29	53	42	34	29	39	32	27	36	30	26	33	28	25	23
7	51	39	31	25	48	37	30	25	35	28	24	32	27	22	30	25	21	19
8	47	35	27	22	45	33	26	21	31	25	20	29	23	19	27	22	18	16
9	43	31	24	19	41	30	23	18	28	22	17	26	20	16	24	19	16	14
10	40	28	21	16	38	27	20	16	25	19	15	24	18	14	22	17	14	12

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	853	14.7	17.0
0-40	1443	24.9	28.8
0-60	2786	48.0	55.5
0-90	4205	72.5	83.8
90-180	814	14.0	16.2
0-180	5020	86.5	100.0

Candela

Angle	Along ⏥	45°	Across ⊥
0	1046	1046	1046
10	1030	1043	1048
20	979	1019	1049
30	888	975	1046
40	763	916	1024
50	611	834	966
60	439	722	859
70	257	575	704
80	92	404	548
90	3	287	439
100	2	268	421
110	2	207	370
120	2	138	275
130	3	70	179
140	4	14	85
150	4	3	10
160	0	0	0
170	0	0	0
180	0	0	0

Discontinued 06-10-19

ORDERING INFORMATION

SAMPLE NUMBER: SM-228T5-120V-EBT1-U

Tandem
6T=6' Length
8T=8' Length

Series
SM= T5 Micro Striplite

Number of Lamps
(Not included)
1=1 Lamp
2=2 Lamp

Lamp Types
14T5=14WT5 (2' Unit) [1], [2]
21T5=21WT5 (3' Unit) [1]
24T5=14WT5/HO (2' Unit) [1], [2]
28T5=28WT5 (4' Unit) [1]
35T5=35WT5 (5' Unit) [1]
39T5=39WT5/HO (3' Unit) [1]
54T5=14WT5/HO (4' Unit) [1]

Voltage
120V=120 Volt
277V=277 Volt
UNV=Universal Voltage 120-277 [3]

Options
GL=Single Element Fuse
GM=Double Element Fuse
EL=Emergency Installed [4]

Ballast Type
EBT_=T5 Linear Electronic Program Rapid Start. Total Harmonic Distortion < 10%

No. of Ballast
1 or 2

Options
(See options & accessories)
RIF1=Radio Interference Suppressor

Plug-In Option

Packaging
U=Unit Pack

NOTES: [1]Nominal dimensions – see mounting data for exact measurements. [2]SML 1-lamp not available for these lamp types. [3]Not available when specifying emergencies, voltage must be specific. [4] EL Emergency option only available on 4 foot units.

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

ACCESSORIES

(Order Separately)

SM-ASY-4=Asymmetrical 4' Reflector
SM-SYM-4=Symmetrical 4' Reflector
SM-ASY-RP-4=Perforated Asymmetrical 4' Reflector
SM-SYM-RP-4=Perforated Symmetrical 4' Reflector

SHIPPING DATA

Catalog No.	Wt.
SM-114/214	6 lbs.
SM-124/224	6 lbs.
SM-121/221	6 lbs.
SM-139/239	6 lbs.
SM-128/228	6 lbs.
SM-154/254	6 lbs.
SM-135/235	6 lbs.