

DESCRIPTION

With industry leading technology and a uniquely minimal profile, The Element Micro combines exceptional lumens per watt performance with the elegance and modern style that have made the fluorescent version so successful. The fixture provides direct/ indirect illumination and is available with two different media options. The proprietary LED platform delivers a soft, diffuse volume of pure white light on both task and ambient surfaces with a guaranteed system life of 50,000 hrs. The Element Micro suspended may be mounted individually or continuously with 4 and 8 foot modular sections and is perfectly suited for open offices, private offices, conference rooms, reception areas and educational facilities.

SPECIFICATION FEATURES

A ... Construction

Micro profile housing is constructed from 6063 T5 aluminum extrusions.

B ... End Plates

Standard endcaps are precision milled aluminum plate mechanically attached without exposed fasteners.

C ... Lens

Lens is .125 inch thick clear microlinear prismatic acrylic material offering 91% transmission with additional frost inlay.

D ... Reflectors

Reflector pan is painted with a high reflectance white powder coat finish.

E ... Electrical

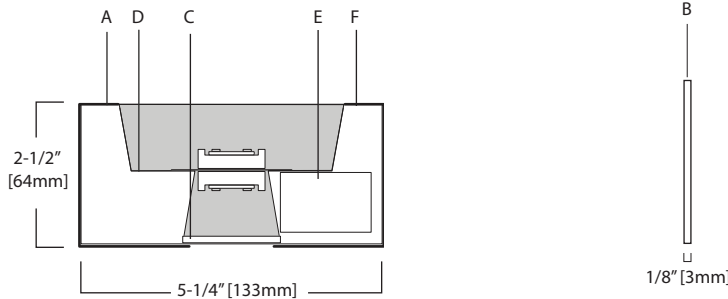
Fixture equipped with proprietary Cooper LED modules rated at 3500K. Removable module features aluminum extrusion providing exceptional thermal management. Modules are driven using universal voltage switch-mode LED drivers. Fixture and modules certified to UL and CUL standards. A 0 to 10V dimming control is available.

F ... Finish

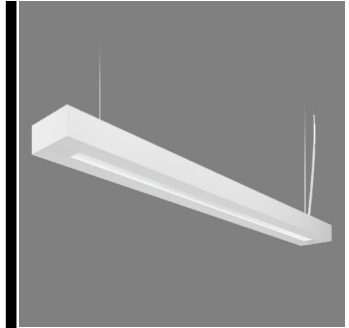
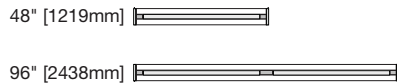
Fixture housings are high reflectance white using electrostatically applied polyester powder coat paint.

Mounting

Standard aircraft cable mounts on 4 foot and 8 foot centers. Please refer to installation instructions for various ceiling interface details.



MODULES AND DIMENSIONS*



Element Micro Frosted Lens

LED

Suspended
Direct/Indirect

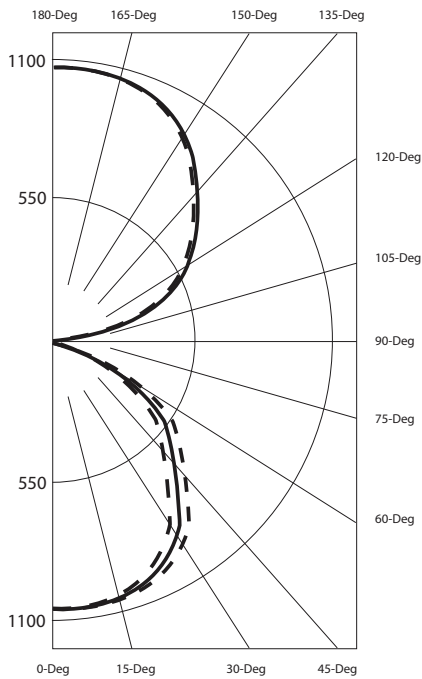
ORDERING INFORMATION

Sample Number: E1-WL-1-L30-1C-UNV-AC48-T1-12

Series E1: Element Micro Suspended	Optics Down L: Frosted Lens	Color Temperature L30: LED 3000K L35: LED 3500K L40: LED 4000K	Wiring ¹ B: Battery Pack C: Standard Circuit D: Dimming E: Emergency T: Nightlight Y: Daylight	Voltage ¹ 120: 120V 277: 277V 347: 347V UNV: Universal (120V-277V)	Power Feed ¹ C: Straight Cord K: Curly Cord	Ceiling Type T1: 1" T-Bar T9: 9/16" T-Bar TS: Slotted T-Bar ST: Structure JB: 4" Octagonal J-Box
Optics Up W: White	Light Level 2: Light Level 2	Number of Circuits 1: 1 Circuit		Suspension A: Aircraft Cable	Suspension Length Adjustable Cable ² 48", 120", 240", 300", or 360" (infinite adjustment along entire length of cable)	Run Length Individually Mounted Luminaires may be 4' or 8' in length Continuously Mounted Standard row configurations over 8' consist of 4' and 8' sections

Notes: 1 Not all options available. Please consult your Cooper Lighting Representative for availability. Specifications and dimensions subject to change without notice.
2 Consult adder section of the price guide for additional standard lengths.

PHOTOMETRICS



E1-WL-2L35-4
 3700 Lumens Up
 2300 Lumens Down
 80.4 LPW
 LED ALM 2.0

Test Report: #P22368

Candela

Angle	0-Deg	23-Deg	45-Deg	68-Deg	90-Deg
0	1066	1066	1066	1066	1066
5	1074	1055	1060	1055	1051
10	1055	1035	1039	1032	1028
15	1024	1003	1006	998	992
20	981	961	961	943	935
25	928	907	900	871	860
30	863	843	825	789	774
35	790	771	743	701	686
40	711	692	651	605	590
45	628	605	553	487	473
50	540	512	434	370	359
55	447	389	326	283	276
60	344	301	244	211	205
65	237	219	177	155	147
70	153	149	124	113	113
75	92	97	87	87	87
80	45	56	60	59	59
85	15	30	30	28	27
90	1	3	2	2	1
95	102	20	20	21	22
100	204	267	32	34	35
105	307	346	337	159	66
110	421	436	451	425	362
115	518	535	543	528	503
120	614	630	629	621	602
125	702	711	716	704	688
130	783	790	801	786	771
135	859	867	880	862	850
140	930	934	946	930	920
145	993	995	1006	989	981
150	1048	1046	1056	1041	1033
155	1094	1089	1097	1085	1078
160	1130	1123	1128	1120	1115
165	1156	1148	1148	1138	1136
170	1172	1164	1163	1149	1148
175	1179	1170	1168	1156	1146
180	1166	1166	1166	1166	1166

Luminance Data

Angle in Deg	0-Deg cd/sm	45-Deg cd/sm	90-Deg cd/sm
45	21199	18668	15967
55	18602	13567	11486
65	13386	9997	8303
75	8485	8024	8024
85	4108	8216	7395

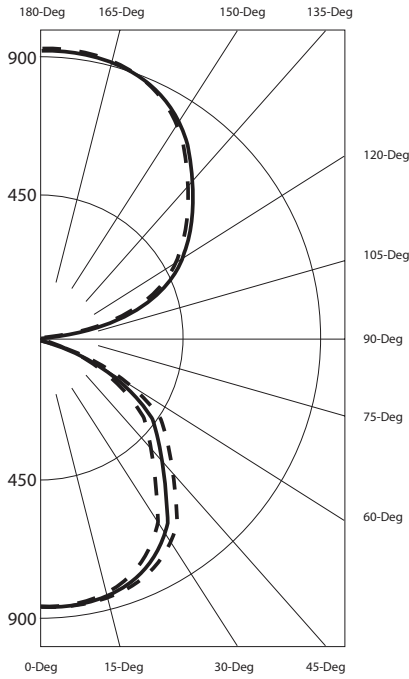
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	793	N.A.	13.2
0-40	1254	N.A.	20.9
0-60	1983	N.A.	33.1
0-90	2297	N.A.	38.3
90-120	837	N.A.	14
90-130	1469	N.A.	24.5
90-150	2759	N.A.	46
90-180	3696	N.A.	61.7
0-180	5993	N.A.	100

Coefficients of Utilization

rc	Effective floor cavity reflectance												20%							
	80%				70%				50%				30%				10%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38		
1	96	92	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33		
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	36	35	34	28		
3	80	71	64	59	72	65	59	54	53	49	45	43	40	37	33	31	29	25		
4	73	63	56	50	66	58	51	46	48	43	39	38	35	32	29	27	25	21		
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	27	24	22	19		
6	62	51	43	37	56	46	40	35	39	33	30	31	28	25	24	22	20	17		
7	57	46	38	33	52	42	35	31	35	30	26	28	25	22	22	20	18	15		
8	53	41	34	29	48	38	32	27	32	27	23	26	22	20	20	18	16	14		
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	16	14	12		
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11		

PHOTOMETRICS



E1-WL-1L35-4
 2884 Lumens Up
 1800 Lumens Down
 83 LPW
 LED ALM 2.0

Test Report: #P22369

Candela

Angle	0-Deg	23-Deg	45-Deg	68-Deg	90-Deg
0	837	837	837	837	837
5	843	829	832	829	826
10	827	813	815	810	807
15	802	788	789	782	778
20	769	754	753	739	732
25	726	711	705	679	671
30	675	660	645	614	603
35	620	604	581	546	536
40	556	542	509	472	463
45	491	472	433	380	371
50	424	400	341	289	283
55	350	303	256	220	217
60	271	237	191	163	161
65	188	172	140	122	114
70	122	117	98	90	90
75	74	76	69	69	69
80	36	45	48	47	47
85	13	24	24	23	22
90	1	2	1	1	1
95	81	15	16	17	16
100	161	207	25	27	27
105	240	269	261	130	57
110	330	340	351	331	283
115	405	418	424	412	393
120	480	491	491	485	470
125	548	555	559	549	537
130	612	617	626	614	603
135	670	675	687	673	663
140	726	729	739	726	719
145	775	776	785	772	765
150	816	816	824	812	806
155	852	849	856	846	842
160	879	875	879	873	870
165	899	894	895	887	886
170	912	905	905	895	894
175	916	910	909	900	892
180	907	907	907	907	907

Luminance Data

Angle in Deg	0-Deg cd/sm	45-Deg cd/sm	90-Deg cd/sm
45	16575	14617	12524
55	14565	10654	9031
65	10618	7907	6439
75	6825	6364	6364
85	3560	6573	6025

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	622	N.A.	13.3
0-40	982	N.A.	21
0-60	1552	N.A.	33.1
0-90	1800	N.A.	38.4
90-120	654	N.A.	14
90-130	1148	N.A.	24.5
90-150	2154	N.A.	46
90-180	2884	N.A.	61.6
0-180	4685	N.A.	100

Coefficients of Utilization

rc	Effective floor cavity reflectance																	
	80%				70%				20%									
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	45	45	45	38
1	96	92	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	36	35	34	28
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	56	50	66	58	51	46	48	43	39	38	35	32	29	27	25	21
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	27	24	22	19
6	62	51	43	37	56	46	40	35	39	33	30	31	28	25	24	22	20	17
7	57	46	38	33	52	42	35	31	35	30	26	28	25	22	22	20	18	15
8	53	41	34	29	48	38	32	27	32	27	23	26	22	20	21	18	16	14
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	16	15	12
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11