

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 237P103

Luminaire Tested: **BSX-PS-132**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 237P103  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: BSX-PS-132  
Description: Basix strip fixture with an 18 cell semi-specular  
parabolic louver called Para Stack.  
Light Source: One - FO32/35K - 2800 Lumens - 32 Watts  
Ballast/Driver: Advance REL-2P32-SC Electronic

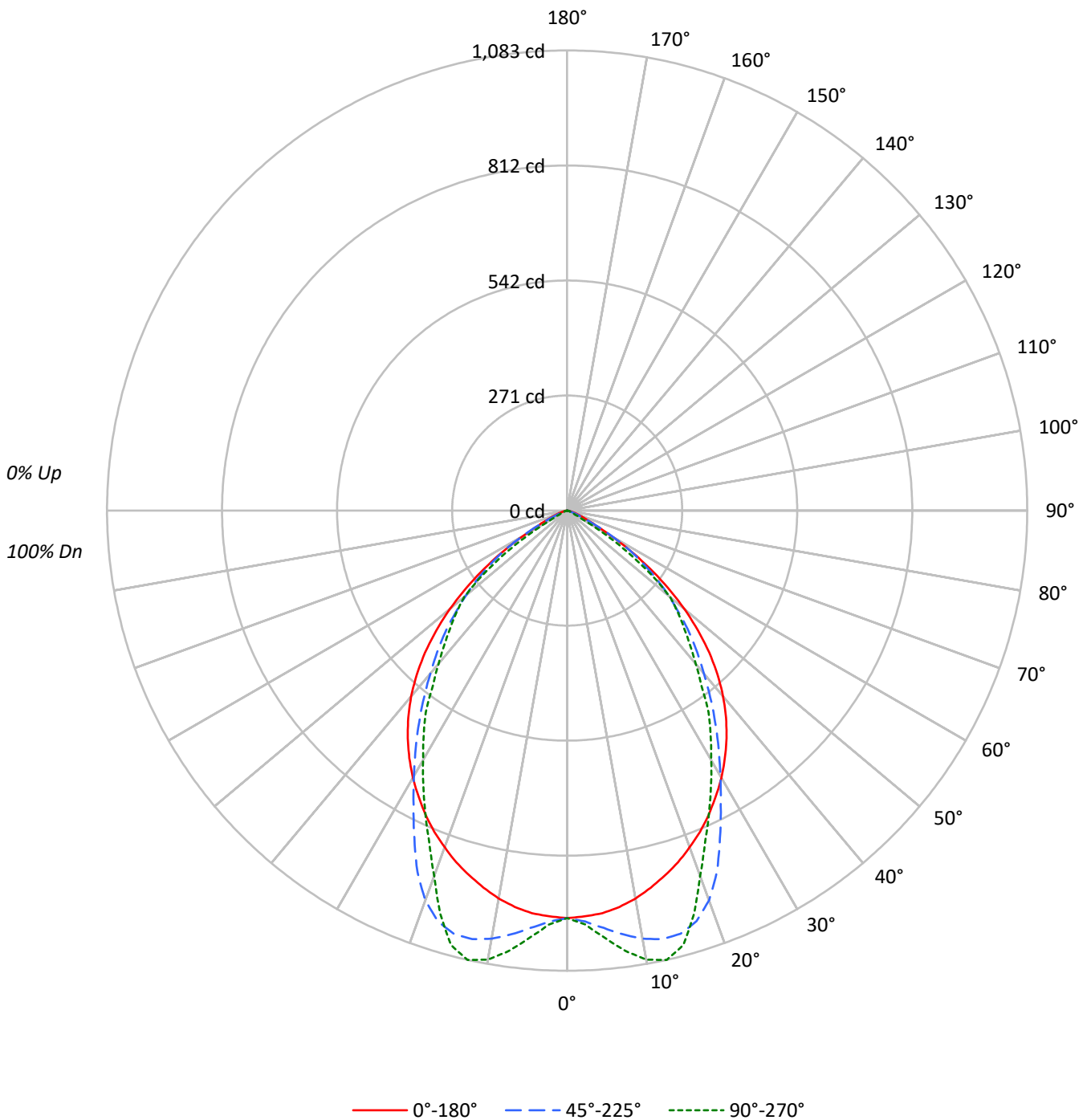
**Summary**

Lumens per Lamp: 2800 (1 lamp)  
Luminaire Lumens: 1722.9 lumens  
Efficiency: 61.5%  
Efficacy: 46.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.09 / 1.15  
Luminous Opening: Rectangular (W 0.65' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: 237P103  
CATALOG NUMBER: BSX-PS-132

### Luminous Intensity Polar Plot





TEST NUMBER: 237P103  
 CATALOG NUMBER: BSX-PS-132

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	73	73	73	73	72	72	72	72	68	68	68	65	65	65	63	63	63	62
1	69	67	65	63	67	65	64	62	63	61	60	61	59	58	58	58	57	56
2	64	60	57	55	63	59	56	54	57	55	53	55	53	52	54	52	51	49
3	60	55	51	48	58	54	50	47	52	49	47	51	48	46	49	47	45	44
4	56	50	45	42	54	49	45	42	48	44	41	46	43	41	45	42	40	39
5	52	45	41	37	51	45	40	37	44	40	37	42	39	37	41	39	36	35
6	48	42	37	34	47	41	37	33	40	36	33	39	36	33	38	35	33	32
7	45	38	34	30	44	38	33	30	37	33	30	36	33	30	35	32	30	29
8	42	35	31	28	42	35	31	28	34	30	27	33	30	27	33	29	27	26
9	40	33	28	25	39	32	28	25	32	28	25	31	27	25	30	27	25	24
10	38	30	26	23	37	30	26	23	30	26	23	29	25	23	28	25	23	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3970	3970	3970
5°	3952	4098	4193
10°	3897	4301	4511
15°	3810	4419	4535
20°	3714	4300	4031
25°	3604	3887	3604
30°	3471	3447	3241
35°	3305	3068	2931
40°	3086	2708	2545
45°	2769	2383	2272
50°	2319	2003	2035
55°	1711	1595	1343
60°	994	1052	447
65°	529	441	157
70°	327	182	97
75°	208	112	64
80°	143	72	24
85°	95	48	48



TEST NUMBER: 237P103  
 CATALOG NUMBER: BSX-PS-132

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	94.7	5.5	3.4	0°	959	959	959	959	959	
10°-20°	279.6	16.2	10.0	5°	951	961	986	1003	1009	90
20°-30°	381.0	22.1	13.6	15°	889	948	1031	1061	1058	250
30°-40°	389.5	22.6	13.9	25°	789	875	851	803	789	363
40°-50°	323.8	18.8	11.6	35°	654	699	607	580	580	408
50°-60°	194.4	11.3	6.9	45°	473	461	407	382	388	362
60°-70°	48.4	2.8	1.7	55°	237	233	221	210	186	212
70°-80°	9.9	0.6	0.4	65°	54	53	45	31	16	60
80°-90°	1.6	0.1	0.1	75°	13	11	7	7	4	15
90°-100°	0.0	0.0	0.0	85°	2	2	1	1	1	2
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	755.4	43.8	27.0	165°	0	0	0	0	0	0
0°-40°	1144.9	66.5	40.9	175°	0	0	0	0	0	0
0°-60°	1663.0	96.5	59.4	180°	0	0	0	0	0	0
0°-90°	1722.9	100.0	61.5							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1722.9	100.0	61.5							



TEST NUMBER: 237P103  
 CATALOG NUMBER: BSX-PS-132

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	959	959	959	959	959
2.5°	956	959	968	974	975
5°	951	961	986	1003	1009
7.5°	941	962	1006	1037	1045
10°	927	960	1023	1065	1073
12.5°	909	956	1033	1077	1083
15°	889	948	1031	1061	1058
17.5°	868	937	1013	1012	994
20°	843	923	976	938	915
22.5°	818	902	921	865	847
25°	789	875	851	803	789
27.5°	758	841	783	744	733
30°	726	800	721	686	678
32.5°	691	752	663	631	629
35°	654	699	607	580	580
37.5°	614	640	553	528	519
40°	571	579	501	469	471
42.5°	524	519	453	424	427
45°	473	461	407	382	388
47.5°	418	404	357	345	352
50°	360	347	311	309	316
52.5°	299	290	267	268	255
55°	237	233	221	210	186
57.5°	177	180	175	149	118
60°	120	129	127	94	54
62.5°	78	83	80	49	21
65°	54	53	45	31	16
67.5°	37	35	25	23	12
70°	27	24	15	17	8
72.5°	19	17	10	12	6
75°	13	11	7	7	4
77.5°	9	8	5	4	2
80°	6	5	3	2	1
82.5°	3	3	2	2	1
85°	2	2	1	1	1
87.5°	1	1	1	0	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



TEST NUMBER: 237P103  
CATALOG NUMBER: BSX-PS-132

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)