

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: 237P102

Luminaire Tested: **BSX-PL-232**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 237P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BSX-PL-232
Description: Basix strip fixture with an 18 cell semi-specular
parabolic louver.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-2P32-SC Electronic

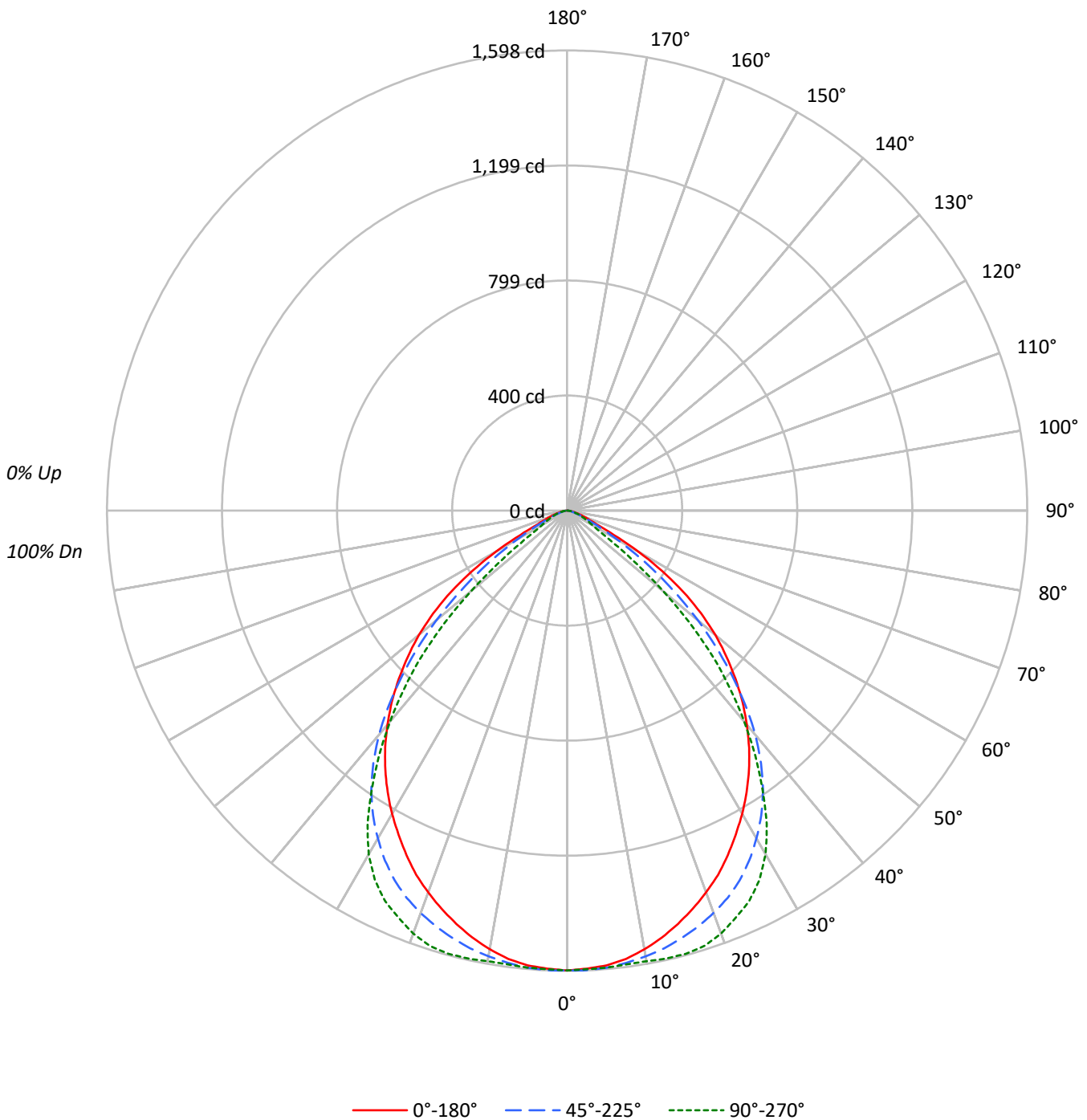
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3043.7 lumens
Efficiency: 54.4%
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.25 / 1.25
Luminous Opening: Rectangular (W 0.51' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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

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Luminous Intensity Polar Plot





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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	65	65	65	65	63	63	63	63	60	60	60	58	58	58	55	55	55	54
1	61	59	57	55	59	58	56	55	55	54	53	53	52	51	51	51	50	49
2	56	53	50	48	55	52	49	47	50	48	46	48	47	45	47	45	44	43
3	52	48	44	41	51	47	44	41	46	43	40	44	42	40	43	41	39	38
4	49	43	39	36	48	43	39	36	41	38	36	40	37	35	39	37	35	34
5	45	39	35	32	44	39	35	32	38	34	32	37	34	31	36	33	31	30
6	42	36	32	29	41	35	32	29	35	31	28	34	31	28	33	30	28	27
7	39	33	29	26	39	33	29	26	32	28	26	31	28	25	30	28	25	24
8	37	30	26	23	36	30	26	23	29	26	23	29	25	23	28	25	23	22
9	35	28	24	21	34	28	24	21	27	24	21	27	23	21	26	23	21	20
10	33	26	22	20	32	26	22	19	25	22	19	25	22	19	24	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8426	8426	8426
5°	8395	8437	8437
10°	8289	8423	8514
15°	8117	8396	8702
20°	7923	8350	8776
25°	7685	8250	8710
30°	7409	8012	8396
35°	7092	7639	7620
40°	6688	7005	6592
45°	6171	6037	5328
50°	5508	4860	3571
55°	4526	3505	1812
60°	3018	2089	1055
65°	1423	1124	861
70°	972	679	710
75°	734	469	571
80°	547	395	456
85°	363	303	363



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	151.3	5.0	2.7	0°	1597	1597	1597	1597	1597	
10°-20°	434.3	14.3	7.8	5°	1585	1585	1593	1599	1593	150
20°-30°	649.0	21.3	11.6	15°	1486	1498	1537	1585	1593	419
30°-40°	724.1	23.8	12.9	25°	1320	1349	1417	1479	1496	607
40°-50°	607.4	20.0	10.8	35°	1101	1146	1186	1186	1183	687
50°-60°	333.9	11.0	6.0	45°	827	865	809	728	714	636
60°-70°	105.4	3.5	1.9	55°	492	500	381	246	197	433
70°-80°	31.7	1.0	0.6	65°	114	118	90	78	69	136
80°-90°	6.6	0.2	0.1	75°	36	31	23	29	28	40
90°-100°	0.0	0.0	0.0	85°	6	5	5	5	6	8
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°	1234.6	40.6	22.0	165°	0	0	0	0	0	0
0°-40°	1958.8	64.4	35.0	175°	0	0	0	0	0	0
0°-60°	2900.0	95.3	51.8	180°	0	0	0	0	0	0
0°-90°	3043.7	100.0	54.4							
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°	3043.7	100.0	54.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597	1597	1597	1597	1597
2.5°	1592	1592	1598	1601	1594
5°	1585	1585	1593	1599	1593
7.5°	1570	1573	1584	1596	1589
10°	1547	1553	1572	1593	1589
12.5°	1519	1526	1557	1591	1593
15°	1486	1498	1537	1585	1593
17.5°	1450	1466	1514	1573	1585
20°	1411	1430	1487	1551	1563
22.5°	1369	1391	1456	1519	1530
25°	1320	1349	1417	1479	1496
27.5°	1268	1303	1370	1429	1446
30°	1216	1253	1315	1365	1378
32.5°	1160	1202	1255	1286	1290
35°	1101	1146	1186	1186	1183
37.5°	1038	1085	1106	1074	1073
40°	971	1017	1017	961	957
42.5°	901	944	916	846	837
45°	827	865	809	728	714
47.5°	750	780	701	609	575
50°	671	691	592	480	435
52.5°	586	598	484	354	304
55°	492	500	381	246	197
57.5°	391	398	283	162	127
60°	286	296	198	114	100
62.5°	183	198	134	94	83
65°	114	118	90	78	69
67.5°	83	76	64	65	56
70°	63	55	44	52	46
72.5°	48	41	31	40	36
75°	36	31	23	29	28
77.5°	26	22	17	19	20
80°	18	16	13	13	15
82.5°	12	10	8	9	10
85°	6	5	5	5	6
87.5°	2	2	2	2	3
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



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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)