

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: 237P101

Luminaire Tested: **BSX-BA-232**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 237P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BSX-BA-232
Description: Basix strip fixture with Baffle Arch Louver
Assembly and endplates.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-2P32-SC Electronic

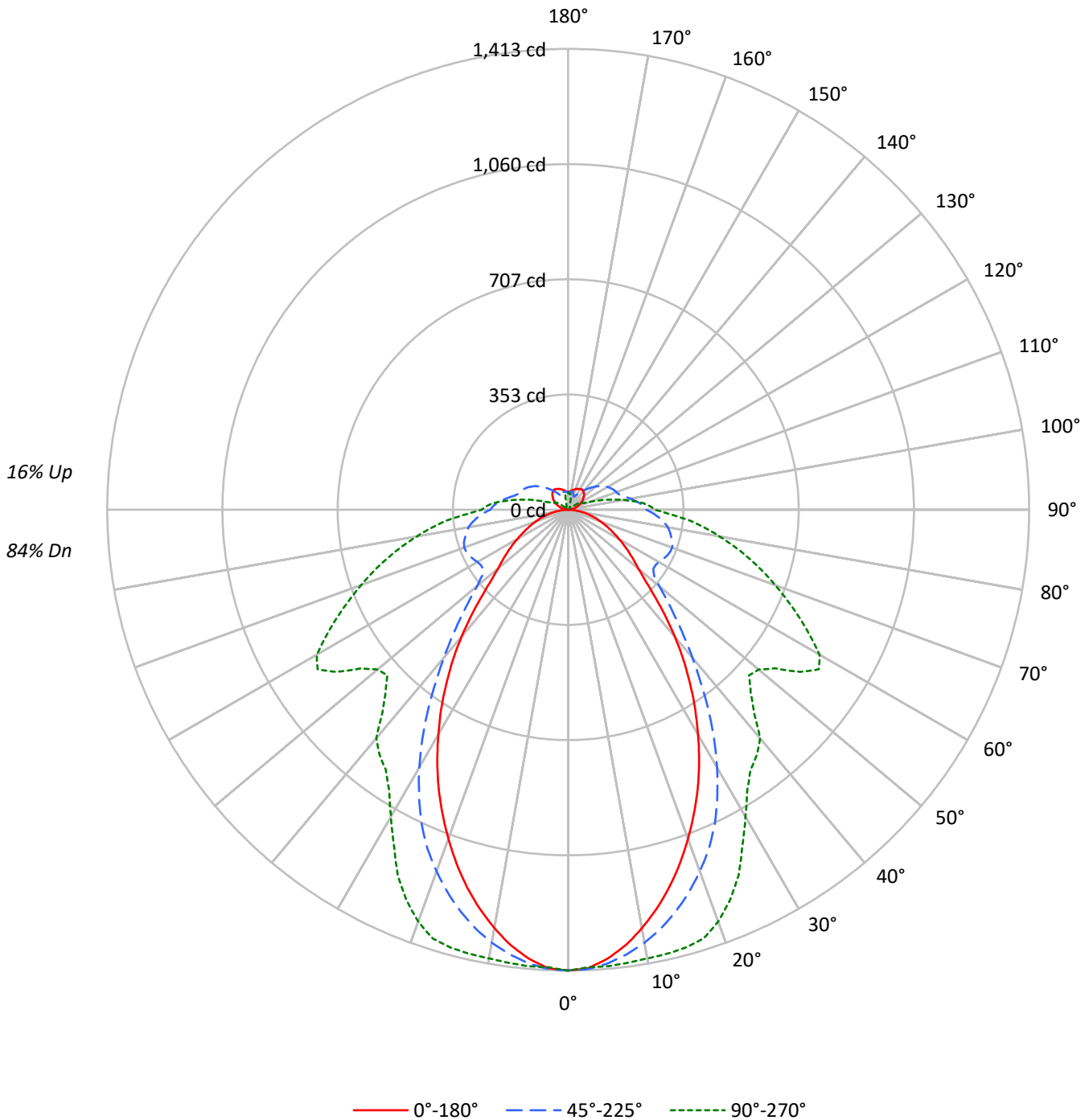
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3941.8 lumens
Efficiency: 70.4%
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 1.15 / 1.07
Luminous Opening: Rectangular w/ Sides (W: 0.6' x L: 4.02' x H: 0.38')
CIE Type: Semi-Direct

Input Watts (W): 59
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	81	81	81	81	78	78	78	78	72	72	72	66	66	66	61	61	61	59
1	72	68	65	62	69	66	62	59	60	58	55	56	54	52	51	50	48	46
2	65	59	54	50	63	57	52	48	52	49	45	48	45	42	45	42	40	38
3	60	52	46	41	57	50	44	40	46	42	38	43	39	36	39	36	34	32
4	55	46	40	35	52	44	39	34	41	36	32	38	34	31	35	32	29	27
5	51	41	35	30	48	40	34	30	37	32	28	35	30	27	32	29	26	24
6	47	37	31	27	45	36	30	26	34	29	25	32	27	24	29	26	23	21
7	44	34	28	24	42	33	27	23	31	26	22	29	25	21	27	23	21	19
8	41	31	25	21	39	30	25	21	28	24	20	27	22	19	25	21	19	17
9	38	29	23	19	37	28	23	19	26	22	18	25	21	18	23	20	17	16
10	36	27	21	18	34	26	21	17	24	20	17	23	19	16	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6306	6306	6306
5°	6140	5984	5964
10°	5808	5600	5695
15°	5398	5177	5490
20°	4931	4720	5187
25°	4433	4221	4698
30°	3890	3627	4102
35°	3326	3000	3676
40°	2747	2409	3481
45°	2145	1929	3056
50°	1747	1566	3015
55°	1556	1426	3542
60°	1381	1515	3788
65°	1229	1676	3497
70°	1088	1832	3214
75°	943	1930	2937
80°	770	2033	2636
85°	468	2083	2312



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	131.7	3.3	2.4	0°	1413	1413	1413	1413	1413	
10°-20°	360.8	9.2	6.4	5°	1382	1382	1396	1409	1405	129
20°-30°	490.7	12.4	8.8	15°	1198	1215	1275	1355	1390	335
30°-40°	486.7	12.3	8.7	25°	940	968	1063	1177	1236	430
40°-50°	410.7	10.4	7.3	35°	651	673	749	868	974	406
50°-60°	393.0	10.0	7.0	45°	372	386	463	667	791	292
60°-70°	401.6	10.2	7.2	55°	227	230	318	649	867	204
70°-80°	351.2	8.9	6.3	65°	140	157	334	670	781	139
80°-90°	270.9	6.9	4.8	75°	74	120	327	559	573	79
90°-100°	199.3	5.1	3.6	85°	19	92	280	433	372	21
100°-110°	140.1	3.6	2.5	90°	0	85	239	351	265	1
110°-120°	102.9	2.6	1.8	95°	5	87	221	315	231	6
120°-130°	76.1	1.9	1.4	105°	22	89	169	197	116	23
130°-140°	51.9	1.3	0.9	115°	40	92	150	127	48	39
140°-150°	33.6	0.9	0.6	125°	56	90	126	83	15	50
150°-160°	21.3	0.5	0.4	135°	69	82	94	54	6	53
160°-170°	14.0	0.4	0.3	145°	75	69	65	36	9	47
170°-180°	5.2	0.1	0.1	155°	70	68	44	27	13	33
0°-30°	983.3	24.9	17.6	165°	63	63	56	36	27	18
0°-40°	1470.0	37.3	26.2	175°	56	57	55	51	49	5
0°-60°	2273.6	57.7	40.6	180°	53	53	53	53	53	
0°-90°	3297.3	83.7	58.9							
90°-120°	442.4	11.2	7.9							
90°-150°	604.0	15.3	10.8							
90°-180°	644.0	16.3	11.5							
0°-180°	3941.8	100.0	70.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413	1413	1413	1413	1413
2.5°	1407	1404	1410	1413	1404
5°	1382	1382	1396	1409	1405
7.5°	1347	1351	1375	1402	1401
10°	1303	1312	1348	1391	1397
12.5°	1253	1266	1315	1375	1395
15°	1198	1215	1275	1355	1390
17.5°	1138	1160	1230	1331	1379
20°	1074	1100	1180	1296	1344
22.5°	1008	1037	1126	1240	1296
25°	940	968	1063	1177	1236
27.5°	869	898	990	1100	1157
30°	796	824	913	1014	1087
32.5°	724	748	832	938	1021
35°	651	673	749	868	974
37.5°	580	597	667	813	949
40°	509	523	592	773	915
42.5°	438	452	524	728	842
45°	372	386	463	667	791
47.5°	318	329	410	628	752
50°	280	285	364	605	762
52.5°	252	255	332	618	799
55°	227	230	318	649	867
57.5°	203	208	317	688	911
60°	180	188	321	707	890
62.5°	159	171	328	693	836
65°	140	157	334	670	781
67.5°	122	145	338	645	727
70°	105	135	339	617	675
72.5°	90	127	335	588	624
75°	74	120	327	559	573
77.5°	60	114	320	528	522
80°	46	108	310	497	471
82.5°	32	100	296	466	422
85°	19	92	280	433	372
87.5°	7	88	260	388	310
90°	0	85	239	351	265
92.5°	1	87	231	337	251
95°	5	87	221	315	231
97.5°	9	86	207	285	201
100°	13	86	194	254	171
102.5°	18	87	181	226	143
105°	22	89	169	197	116
107.5°	27	90	161	172	90
110°	31	90	157	151	69



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35	91	154	136	54
115°	40	92	150	127	48
117.5°	44	92	145	119	47
120°	48	91	139	110	46
122.5°	52	91	132	96	36
125°	56	90	126	83	15
127.5°	59	89	118	74	6
130°	62	87	111	66	5
132.5°	66	85	102	60	5
135°	69	82	94	54	6
137.5°	71	78	86	49	6
140°	73	74	78	44	7
142.5°	75	71	71	40	8
145°	75	69	65	36	9
147.5°	74	68	59	34	10
150°	73	68	53	31	11
152.5°	72	68	49	29	12
155°	70	68	44	27	13
157.5°	69	68	44	26	14
160°	67	67	47	25	16
162.5°	65	65	51	28	19
165°	63	63	56	36	27
167.5°	61	62	57	45	38
170°	59	60	57	51	47
172.5°	57	58	55	51	49
175°	56	57	55	51	49
177.5°	55	56	54	51	49
180°	53	53	53	53	53

(END OF REPORT)