

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: 175P163

Luminaire Tested: **BSX-AP-4 Without the Teardrop**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 175P163
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BSX-AP-4 Without the Teardrop
Description: BASIX Acrylic Point Luminaire with out the Teardrop.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B232IUNVHP-B Electronic L.O.B.F. = Unknown

Summary

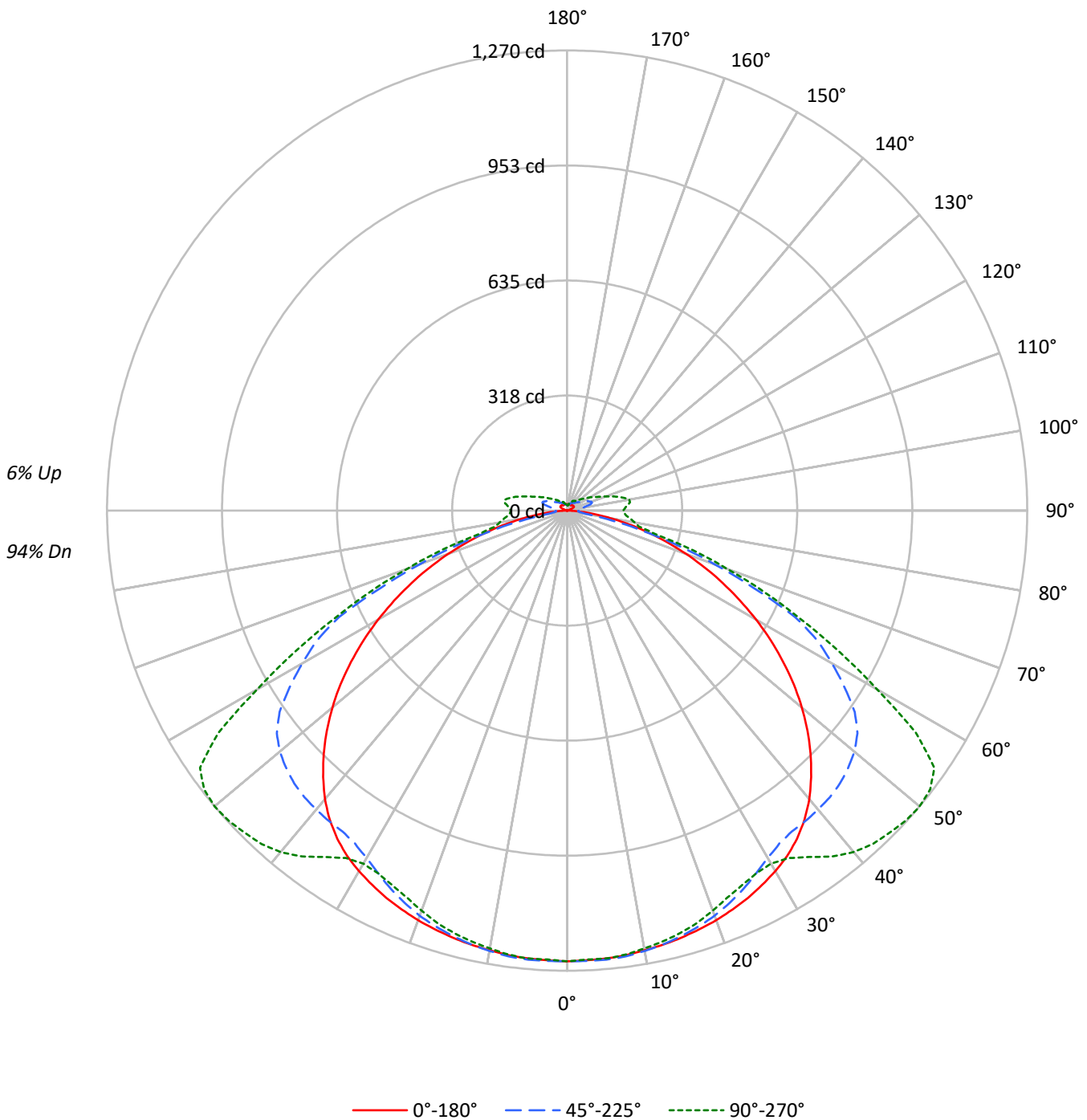
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4693.5 lumens
Efficiency: 83.8%
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.46 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.79' x L: 4.01' x H: 0.23')
CIE Type: Direct

Input Watts (W): 57
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	99	99	99	99	96	96	96	96	90	90	90	85	85	85	81	81	81	79																			
1	90	86	82	78	87	83	80	77	79	76	73	74	72	70	71	69	67	65																			
2	81	74	68	63	78	72	67	62	68	64	60	65	61	58	61	58	55	53																			
3	73	64	57	52	71	63	56	51	59	54	49	56	52	48	54	50	46	44																			
4	67	57	49	43	65	55	48	43	52	46	41	50	44	40	47	43	39	37																			
5	61	50	42	37	59	49	42	36	46	40	35	44	39	34	42	37	34	32																			
6	56	45	37	31	54	44	36	31	42	35	30	40	34	30	38	33	29	27																			
7	52	40	33	27	50	39	32	27	38	31	27	36	30	26	34	29	25	24																			
8	48	37	29	24	47	36	29	24	34	28	23	33	27	23	31	26	23	21																			
9	45	33	26	22	43	33	26	21	31	25	21	30	24	21	29	24	20	19																			
10	42	31	24	19	41	30	24	19	29	23	19	28	22	18	27	22	18	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4227	4227	4227
5°	4212	4153	4128
10°	4208	4080	4027
15°	4227	4013	3939
20°	4261	3949	3842
25°	4309	3874	3766
30°	4364	3802	3779
35°	4411	3824	4021
40°	4401	3959	4385
45°	4317	4106	4682
50°	4186	4229	4984
55°	3986	4246	5176
60°	3721	4020	4468
65°	3394	3651	3539
70°	2995	2565	2594
75°	2476	1491	1592
80°	1801	384	1395
85°	942	337	1477



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	118.4	2.5	2.1	0°	1244	1244	1244	1244	1244	
10°-20°	343.9	7.3	6.1	5°	1241	1241	1244	1248	1241	118
20°-30°	535.1	11.4	9.6	15°	1220	1223	1216	1216	1207	345
30°-40°	701.6	14.9	12.5	25°	1180	1173	1152	1146	1141	545
40°-50°	838.8	17.9	15.0	35°	1106	1101	1081	1142	1167	691
50°-60°	856.4	18.2	15.3	45°	950	973	1065	1207	1258	732
60°-70°	628.8	13.4	11.2	55°	728	770	969	1166	1237	650
70°-80°	286.4	6.1	5.1	65°	474	575	694	698	715	470
80°-90°	90.3	1.9	1.6	75°	229	372	218	230	253	244
90°-100°	67.3	1.4	1.2	85°	40	53	33	111	164	50
100°-110°	72.9	1.6	1.3	90°	0	27	30	99	155	2
110°-120°	57.7	1.2	1.0	95°	1	21	29	108	166	1
120°-130°	37.7	0.8	0.7	105°	6	20	66	118	147	6
130°-140°	24.4	0.5	0.4	115°	18	38	62	81	89	17
140°-150°	16.8	0.4	0.3	125°	21	29	41	54	58	19
150°-160°	10.4	0.2	0.2	135°	20	24	31	39	41	16
160°-170°	5.2	0.1	0.1	145°	18	23	27	32	33	11
170°-180°	1.6	0.0	0.0	155°	19	20	22	24	25	9
0°-30°	997.3	21.2	17.8	165°	18	18	18	19	19	5
0°-40°	1698.8	36.2	30.3	175°	18	17	16	16	14	2
0°-60°	3394.1	72.3	60.6	180°	16	16	16	16	16	
0°-90°	4399.6	93.7	78.6							
90°-120°	197.9	4.2	3.5							
90°-150°	276.8	5.9	4.9							
90°-180°	294.0	6.3	5.3							
0°-180°	4693.5	100.0	83.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244	1244	1244	1244	1244
2.5°	1242	1242	1244	1247	1240
5°	1241	1241	1244	1248	1241
7.5°	1238	1238	1241	1243	1236
10°	1232	1235	1234	1234	1227
12.5°	1227	1230	1226	1226	1218
15°	1220	1223	1216	1216	1207
17.5°	1212	1213	1204	1202	1193
20°	1203	1201	1190	1184	1175
22.5°	1192	1188	1172	1165	1156
25°	1180	1173	1152	1146	1141
27.5°	1165	1158	1129	1129	1129
30°	1149	1140	1107	1118	1125
32.5°	1130	1122	1090	1122	1137
35°	1106	1101	1081	1142	1167
37.5°	1076	1078	1080	1169	1203
40°	1040	1050	1077	1189	1230
42.5°	997	1014	1073	1202	1248
45°	950	973	1065	1207	1258
47.5°	900	927	1052	1209	1267
50°	846	878	1035	1205	1270
52.5°	789	825	1010	1193	1263
55°	728	770	969	1166	1237
57.5°	666	717	908	1102	1141
60°	602	670	844	984	989
62.5°	538	624	780	830	850
65°	474	575	694	698	715
67.5°	411	526	557	570	591
70°	349	477	433	448	470
72.5°	288	428	322	334	364
75°	229	372	218	230	253
77.5°	173	275	130	145	202
80°	122	184	47	131	189
82.5°	77	108	36	122	177
85°	40	53	33	111	164
87.5°	13	39	31	102	158
90°	0	27	30	99	155
92.5°	0	23	30	101	160
95°	1	21	29	108	166
97.5°	2	20	30	118	175
100°	3	20	40	128	174
102.5°	4	20	53	127	162
105°	6	20	66	118	147
107.5°	7	23	72	108	129
110°	9	30	71	98	113



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13	35	66	87	100
115°	18	38	62	81	89
117.5°	21	38	57	73	80
120°	22	36	52	67	73
122.5°	21	32	47	61	65
125°	21	29	41	54	58
127.5°	21	28	38	49	53
130°	21	26	35	45	48
132.5°	21	25	34	42	45
135°	20	24	31	39	41
137.5°	19	24	29	36	38
140°	19	24	29	33	34
142.5°	18	23	28	33	33
145°	18	23	27	32	33
147.5°	18	23	25	30	32
150°	18	22	24	29	30
152.5°	19	21	23	26	28
155°	19	20	22	24	25
157.5°	19	19	21	23	24
160°	19	18	20	22	22
162.5°	19	18	19	20	20
165°	18	18	18	19	19
167.5°	18	17	17	17	17
170°	18	17	16	16	15
172.5°	18	17	16	16	15
175°	18	17	16	16	14
177.5°	18	17	16	16	14
180°	16	16	16	16	16

(END OF REPORT)