

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: 17081

Luminaire Tested: **BSX-AR-232**

Issue Date: 3/3/2020



**Test Information**

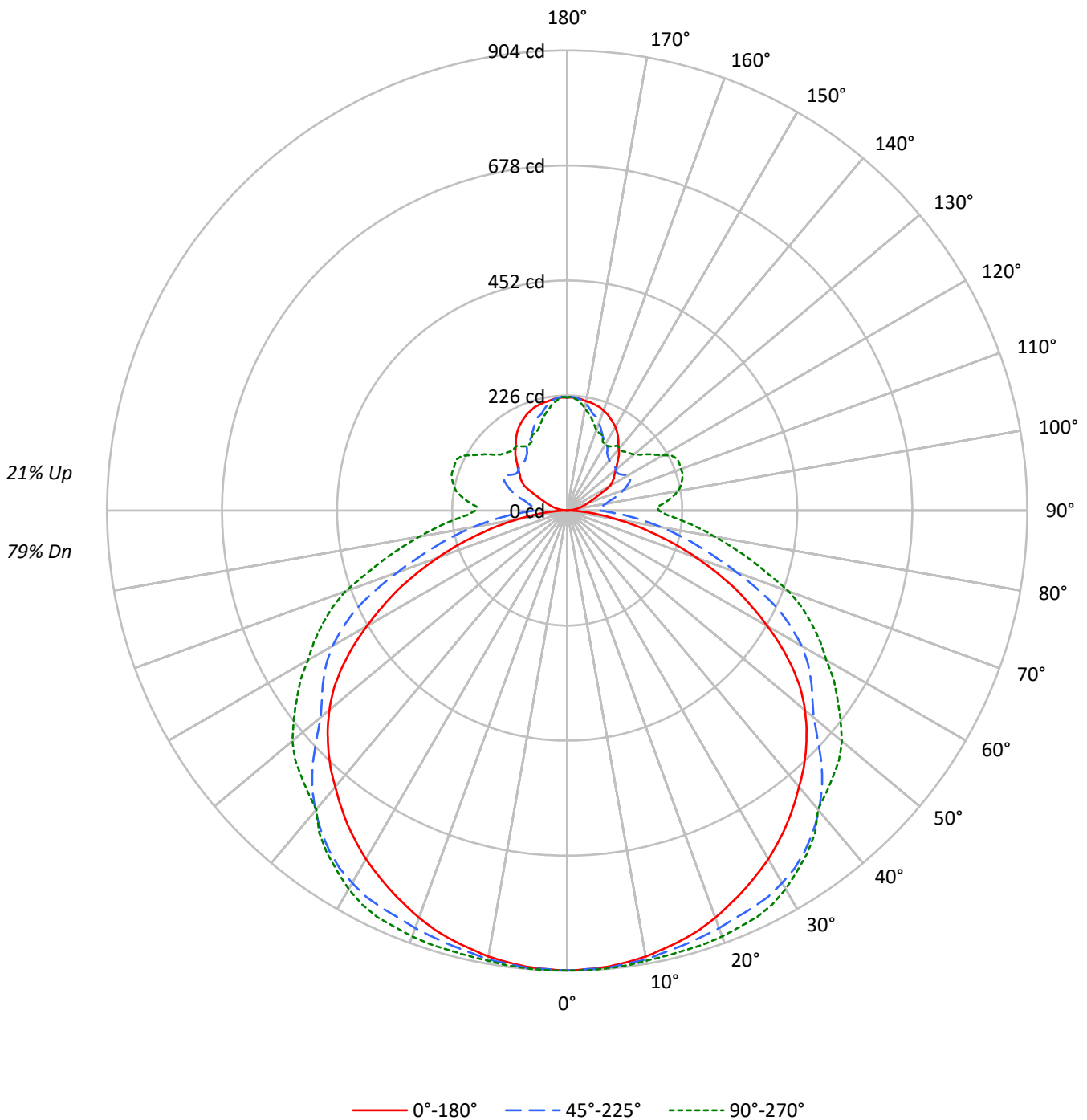
Test Method: LM-41-14  
Report Number: 17081  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: BSX-AR-232  
Description: 4" STRIP LUMINAIRE WITH WHITE INTERIOR, INNER WHITE WRAP LENS AND  
OUTER CLEAR PRISMATIC LENS  
Light Source: TWO PHILIPS 32 WATT T8 LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 4018.2 lumens  
Efficiency: 67.0%  
Efficacy: 71.8 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.4 / 1.48  
Luminous Opening: (L: 0' x W: -4' x H: 0'  
CIE Type: Semi-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	76	76	76	76	73	73	73	73	67	67	67	61	61	61	56	56	56	53
1	69	65	62	59	66	62	60	57	57	55	53	52	50	49	48	46	45	43
2	62	56	52	47	59	54	50	46	49	46	43	45	42	40	41	39	37	35
3	56	49	43	39	53	47	42	38	43	39	35	39	36	33	36	33	31	29
4	51	43	37	33	49	41	36	32	38	33	30	35	31	28	32	29	26	24
5	47	38	32	28	45	37	31	27	34	29	25	31	27	24	28	25	22	21
6	43	34	28	24	41	33	27	23	30	26	22	28	24	21	26	22	19	18
7	40	31	25	21	38	30	24	20	27	23	19	25	21	18	23	20	17	16
8	37	28	22	18	35	27	22	18	25	20	17	23	19	16	21	18	15	14
9	35	26	20	16	33	25	20	16	23	18	15	21	17	14	20	16	14	12
10	32	24	18	15	31	23	18	14	21	17	14	20	16	13	18	15	12	11

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

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	85.8	2.1	1.4	0°	904	904	904	904	904	
10°-20°	250.1	6.2	4.2	5°	900	901	902	902	903	86
20°-30°	395.1	9.8	6.6	15°	873	877	884	889	894	247
30°-40°	500.1	12.4	8.3	25°	822	836	861	876	881	379
40°-50°	543.6	13.5	9.1	35°	752	780	815	819	822	471
50°-60°	528.0	13.1	8.8	45°	664	696	708	714	738	512
60°-70°	441.5	11.0	7.4	55°	541	556	585	626	649	481
70°-80°	294.6	7.3	4.9	65°	365	378	458	506	531	360
80°-90°	147.4	3.7	2.5	75°	178	231	265	340	373	191
90°-100°	95.2	2.4	1.6	85°	38	80	118	199	226	44
100°-110°	119.2	3.0	2.0	90°	0	27	64	148	180	2
110°-120°	136.3	3.4	2.3	95°	6	23	66	152	195	7
120°-130°	123.2	3.1	2.1	105°	30	32	96	192	234	32
130°-140°	107.2	2.7	1.8	115°	63	61	136	209	239	65
140°-150°	94.6	2.4	1.6	125°	112	96	125	174	193	100
150°-160°	79.4	2.0	1.3	135°	141	122	128	151	163	109
160°-170°	56.1	1.4	0.9	145°	175	154	137	146	154	109
170°-180°	20.8	0.5	0.3	155°	200	186	164	161	163	92
0°-30°	731.0	18.2	12.2	165°	215	212	196	190	187	61
0°-40°	1231.1	30.6	20.5	175°	222	224	222	219	218	21
0°-60°	2302.7	57.3	38.4	180°	222	222	222	222	222	
0°-90°	3186.2	79.3	53.1							
90°-120°	350.7	8.7	5.8							
90°-150°	675.7	16.8	11.3							
90°-180°	832.0	20.7	13.9							
0°-180°	4018.2	100.0	67.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	903.6	903.6	903.6	903.6	903.6
2.5°	901.9	902.9	901.9	902.4	903.8
5°	899.7	901.1	902.1	901.9	902.9
7.5°	895.2	896.6	897.5	899.7	901.1
10°	889.5	891.7	895.2	895.7	897.9
12.5°	881.4	885.9	888.5	891.7	896.2
15°	873.4	877.4	883.6	888.6	894.0
17.5°	863.5	869.8	878.2	886.4	893.5
20°	851.3	858.5	873.0	883.6	890.3
22.5°	836.6	847.3	865.7	881.0	885.4
25°	822.3	835.8	861.3	875.7	881.4
27.5°	806.5	822.3	855.0	867.6	872.5
30°	790.5	810.6	844.6	857.2	858.5
32.5°	772.1	795.9	832.6	838.3	840.2
35°	752.4	779.8	815.1	819.0	822.3
37.5°	730.8	759.9	794.1	793.2	799.4
40°	708.9	742.9	769.4	764.5	766.7
42.5°	687.4	720.1	741.1	736.2	752.8
45°	663.6	695.5	707.6	713.5	738.5
47.5°	638.1	668.6	668.1	695.0	724.6
50°	610.0	632.9	631.9	674.9	704.4
52.5°	578.9	599.1	607.2	654.8	677.0
55°	541.4	556.5	585.3	626.1	648.8
57.5°	499.7	518.5	561.1	599.6	621.6
60°	454.4	470.5	532.3	567.3	588.0
62.5°	409.6	427.1	496.1	538.7	561.1
65°	365.4	377.5	458.1	505.5	531.1
67.5°	316.9	337.5	405.6	471.0	500.1
70°	269.8	304.4	355.0	429.3	463.0
72.5°	225.1	266.7	306.6	379.7	414.0
75°	178.5	231.3	264.9	340.5	372.8
77.5°	138.1	190.5	225.4	298.9	332.1
80°	99.1	155.1	187.8	265.8	294.4
82.5°	66.4	114.4	151.6	228.6	259.9
85°	37.7	80.4	117.9	198.6	226.4
87.5°	16.2	48.9	86.6	167.7	196.0
90°	0.5	26.9	64.0	148.1	179.7
92.5°	0.7	22.5	61.5	145.3	178.0
95°	6.4	22.9	65.9	152.0	195.0
97.5°	11.3	25.2	70.5	164.5	208.9
100°	18.5	27.9	76.7	178.5	221.5
102.5°	23.9	28.4	83.9	183.4	228.7
105°	30.1	31.9	96.0	192.3	234.0
107.5°	36.9	35.1	107.6	198.2	238.0
110°	44.0	39.5	118.0	201.8	238.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	52.5	48.9	127.3	206.2	239.0
115°	63.2	61.0	135.9	209.4	239.0
117.5°	78.4	74.5	141.3	203.5	232.7
120°	96.9	88.0	138.1	193.3	217.5
122.5°	105.8	93.7	131.0	177.6	203.9
125°	112.2	96.0	124.6	173.5	192.8
127.5°	117.1	100.4	122.9	163.2	180.3
130°	124.8	105.3	124.6	157.8	171.2
132.5°	132.7	113.0	127.5	154.2	166.4
135°	141.3	122.0	128.2	150.7	162.8
137.5°	150.7	127.8	127.0	153.8	158.7
140°	157.8	134.1	128.7	155.1	160.5
142.5°	165.5	143.1	132.4	151.2	160.6
145°	174.8	154.2	136.8	145.7	153.8
147.5°	182.5	158.3	147.5	144.0	149.7
150°	189.7	168.6	152.4	146.7	149.7
152.5°	195.0	177.6	156.6	155.6	151.6
155°	200.4	185.6	163.7	161.0	163.2
157.5°	205.4	190.5	173.6	165.4	165.0
160°	208.9	197.7	182.5	170.4	168.2
162.5°	213.0	205.4	192.3	179.8	176.6
165°	214.8	211.6	196.0	190.1	187.0
167.5°	217.0	216.1	204.9	200.0	195.5
170°	218.0	217.5	213.0	204.0	203.1
172.5°	220.2	221.5	219.2	213.0	212.1
175°	221.9	223.7	221.5	218.8	218.0
177.5°	222.4	221.9	223.7	222.9	223.4
180°	222.2	222.2	222.2	222.2	222.2

(END OF REPORT)