

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: P30245

Luminaire Tested: **CR-132A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30245
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: CR-132A-UNV-EB81
Description: METALUX CR 4FT COMMERCIAL CORRIDOR LUMINAIRE WITH A WHITE
BALLAST COVER, NO REFLECTOR, WRAPAROUND ACRYLIC LENS
Light Source: ONE (1) 32W T8 LAMP - 3100 LUMENS
Ballast/Driver: -
GE232MAX-N/ULTRA

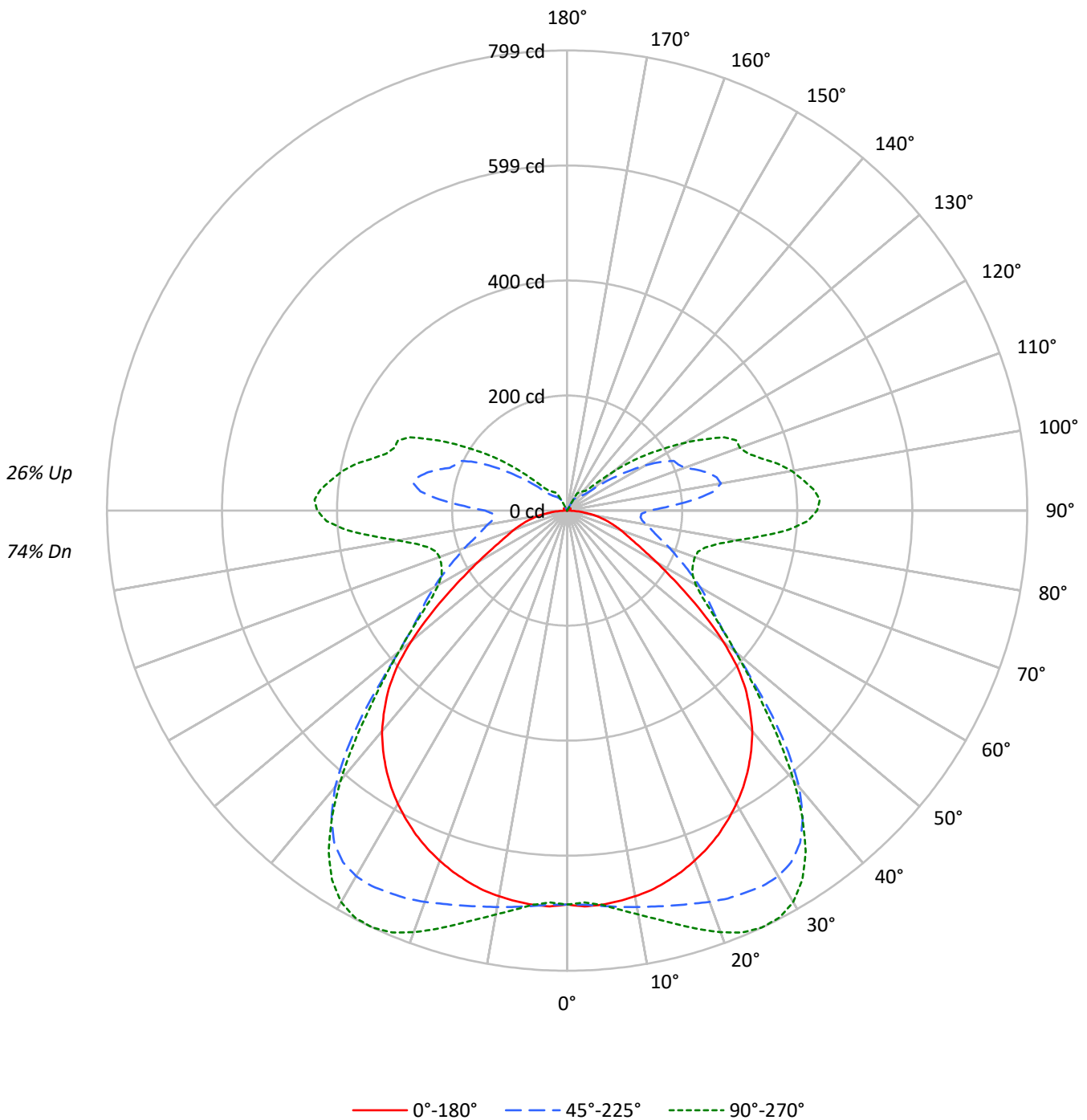
Summary

Lumens per Lamp: 3100 (1 lamp)
Luminaire Lumens: 2995.8 lumens
Efficiency: 96.6%
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.52 / 1.43
Luminous Opening: Rectangular (W 0.51' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 25.7
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	109	109	109	109	104	104	104	104	94	94	94	84	84	84	76	76	76	72
1	98	93	88	84	93	88	84	80	80	76	73	72	69	67	64	62	60	57
2	89	81	74	68	84	77	71	66	69	65	60	63	59	55	56	53	51	47
3	81	71	63	57	77	68	61	55	61	56	51	55	51	47	50	46	43	40
4	75	63	55	48	70	60	53	47	55	48	44	50	44	40	45	41	37	34
5	69	56	48	42	65	54	46	40	49	43	38	45	39	35	40	36	33	30
6	63	51	42	36	60	49	41	35	44	38	33	40	35	31	37	32	29	26
7	59	46	38	32	56	44	37	31	40	34	29	37	31	27	34	29	26	23
8	55	42	34	29	52	40	33	28	37	31	26	34	28	25	31	26	23	21
9	51	38	31	26	48	37	30	25	34	28	23	31	26	22	29	24	21	19
10	48	35	28	23	45	34	27	22	31	25	21	29	24	20	27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3606	3606	3606
5°	3636	3646	3636
10°	3640	3742	3812
15°	3641	3875	4061
20°	3630	4056	4371
25°	3612	4258	4648
30°	3580	4462	4779
35°	3527	4537	4647
40°	3441	4315	4212
45°	3266	3750	3609
50°	2903	3125	3125
55°	2344	2868	2803
60°	1877	2815	2720
65°	1597	2794	2994
70°	1526	2913	3638
75°	1507	3239	5052
80°	1488	4251	9048
85°	1331	7743	23289



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.1	2.2	2.1	0°	684	684	684	684	684	
10°-20°	201.1	6.7	6.5	5°	687	686	689	693	687	65
20°-30°	332.8	11.1	10.7	15°	667	679	710	739	744	188
30°-40°	415.2	13.9	13.4	25°	621	658	732	788	799	286
40°-50°	375.8	12.5	12.1	35°	548	615	705	725	722	342
50°-60°	270.8	9.0	8.7	45°	438	500	503	491	484	334
60°-70°	203.8	6.8	6.6	55°	255	286	312	314	305	231
70°-80°	170.9	5.7	5.5	65°	128	167	224	238	240	131
80°-90°	190.8	6.4	6.2	75°	74	107	159	207	248	78
90°-100°	237.9	7.9	7.7	85°	22	70	128	296	385	23
100°-110°	223.0	7.4	7.2	90°	0	55	142	371	434	1
110°-120°	173.1	5.8	5.6	95°	0	58	223	397	429	0
120°-130°	88.2	2.9	2.8	105°	2	90	253	328	349	3
130°-140°	29.0	1.0	0.9	115°	6	84	204	278	301	6
140°-150°	15.8	0.5	0.5	125°	6	43	102	154	170	5
150°-160°	1.4	0.0	0.0	135°	5	20	37	48	55	4
160°-170°	0.0	0.0	0.0	145°	5	14	28	37	39	3
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	599.9	20.0	19.4	165°	0	0	0	0	0	0
0°-40°	1015.2	33.9	32.7	175°	0	0	0	0	0	0
0°-60°	1661.8	55.5	53.6	180°	0	0	0	0	0	0
0°-90°	2227.3	74.3	71.8							
90°-120°	634.1	21.2	20.5							
90°-150°	767.1	25.6	24.7							
90°-180°	768.0	25.6	24.8							
0°-180°	2995.8	100.0	96.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684	684	684	684	684
2.5°	688	686	685	687	681
5°	687	686	689	693	687
7.5°	684	685	694	703	699
10°	680	684	699	713	712
12.5°	675	682	704	725	727
15°	667	679	710	739	744
17.5°	658	675	716	754	762
20°	647	671	723	769	779
22.5°	635	665	729	780	793
25°	621	658	732	788	799
27.5°	605	650	735	788	797
30°	588	640	733	779	785
32.5°	569	629	724	759	760
35°	548	615	705	725	722
37.5°	525	598	672	679	671
40°	500	574	627	621	612
42.5°	470	541	568	556	548
45°	438	500	503	491	484
47.5°	400	449	436	432	430
50°	354	391	381	383	381
52.5°	303	335	340	344	340
55°	255	286	312	314	305
57.5°	213	247	290	290	277
60°	178	216	267	270	258
62.5°	150	189	245	254	246
65°	128	167	224	238	240
67.5°	112	148	205	227	237
70°	99	133	189	217	236
72.5°	86	120	173	210	238
75°	74	107	159	207	248
77.5°	61	97	149	210	267
80°	49	87	140	226	298
82.5°	35	78	131	255	340
85°	22	70	128	296	385
87.5°	9	62	129	338	418
90°	0	55	142	371	434
92.5°	0	56	179	392	439
95°	0	58	223	397	429
97.5°	1	60	257	384	412
100°	1	64	271	368	396
102.5°	2	73	266	350	375
105°	2	90	253	328	349
107.5°	3	104	236	305	329
110°	4	100	217	293	319



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5	88	209	292	318
115°	6	84	204	278	301
117.5°	6	80	183	248	268
120°	7	69	157	216	235
122.5°	6	56	128	185	201
125°	6	43	102	154	170
127.5°	6	31	78	124	139
130°	5	24	55	91	107
132.5°	5	21	42	64	75
135°	5	20	37	48	55
137.5°	5	18	34	44	46
140°	4	17	32	41	44
142.5°	5	16	30	39	41
145°	5	14	28	37	39
147.5°	4	12	25	34	37
150°	4	11	23	32	34
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)