

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: 120P101

Luminaire Tested: **WB-432A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 120P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: WB-432A
Description: Wide Surface Mount Wraparound Luminaire with an acrylic lens.
Light Source: Four - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B4321120RH Electronic - L.O.B.F.= 89.5

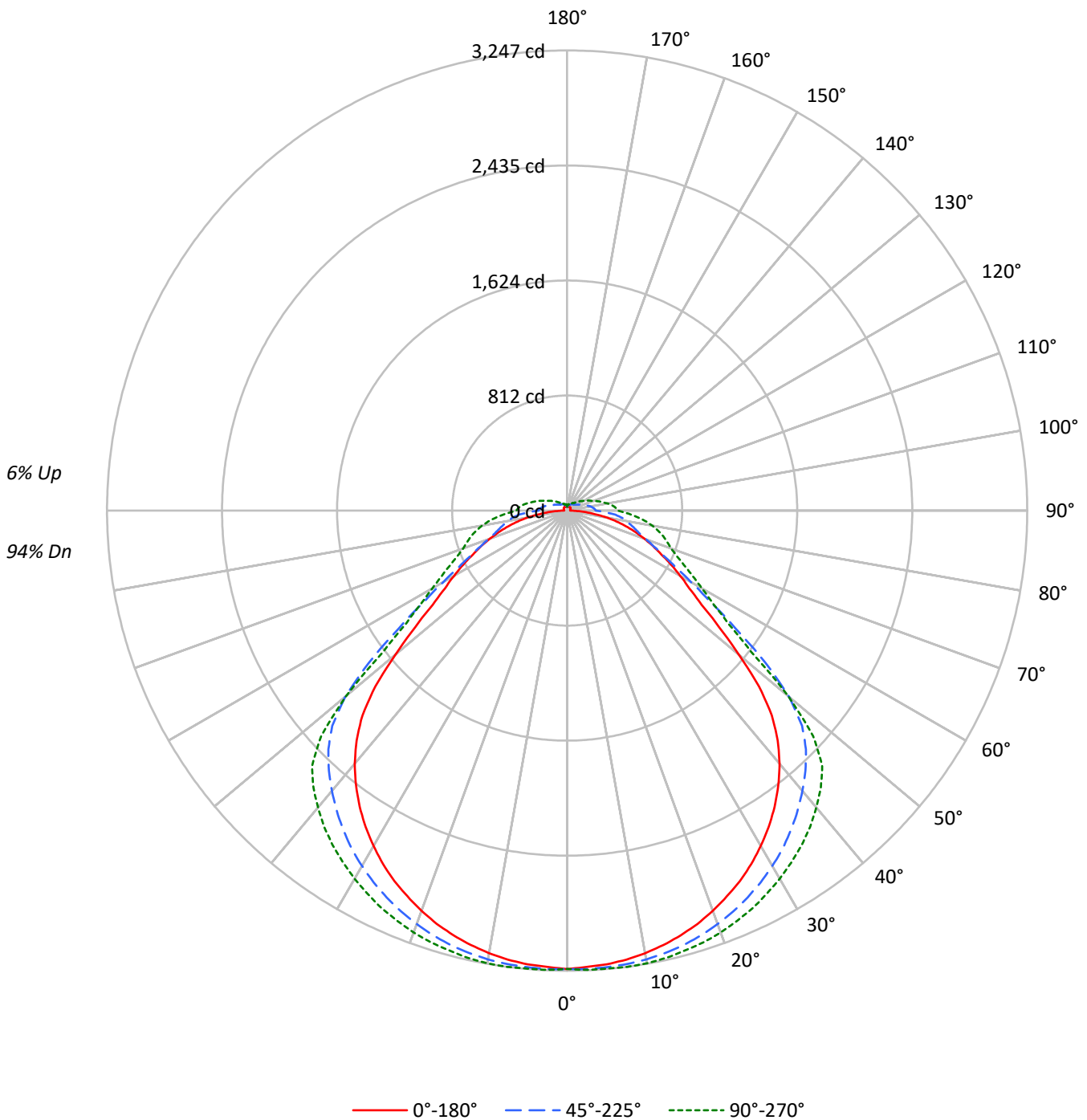
Summary

Lumens per Lamp: 2850 (4 lamps)
Luminaire Lumens: 9614.2 lumens
Efficiency: 84.3%
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.49' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 109.9
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	50	30	10	0	
RCR																						
0	99	99	99	99	96	96	96	96	91	91	91	86	86	86	81	81	81	79				
1	90	86	83	79	87	84	81	78	79	77	74	75	73	71	71	69	68	66				
2	83	76	70	65	80	74	68	64	70	66	62	66	63	60	63	60	57	55				
3	76	67	60	55	73	65	59	54	62	57	52	59	54	51	56	52	49	47				
4	69	60	52	47	67	58	51	46	55	50	45	53	48	44	50	46	43	41				
5	64	53	46	41	62	52	45	40	50	44	39	48	42	38	45	41	37	35				
6	59	48	41	36	57	47	40	35	45	39	34	43	38	34	41	37	33	31				
7	55	44	36	31	53	43	36	31	41	35	31	39	34	30	38	33	29	28				
8	51	40	33	28	49	39	32	28	38	32	27	36	31	27	35	30	26	25				
9	48	37	30	25	46	36	29	25	35	29	25	33	28	24	32	27	24	22				
10	45	34	27	23	43	33	27	23	32	26	22	31	26	22	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5824	5824	5824
5°	5787	5789	5806
10°	5754	5769	5816
15°	5717	5749	5816
20°	5671	5723	5832
25°	5619	5695	5846
30°	5546	5666	5859
35°	5449	5624	5877
40°	5295	5562	5877
45°	4993	5474	5829
50°	4221	5068	5033
55°	3433	3944	3750
60°	3099	3065	3310
65°	2870	2582	3128
70°	2734	2397	3143
75°	2582	2452	3453
80°	2381	2691	3861
85°	1861	3175	4459



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	307.9	3.2	2.7	0°	3235	3235	3235	3235	3235	
10°-20°	894.6	9.3	7.8	5°	3214	3224	3234	3241	3244	305
20°-30°	1384.3	14.4	12.1	15°	3102	3133	3174	3202	3214	876
30°-40°	1711.9	17.8	15.0	25°	2884	2935	3012	3070	3096	1328
40°-50°	1781.5	18.5	15.6	35°	2552	2633	2753	2846	2883	1594
50°-60°	1269.1	13.2	11.1	45°	2043	2178	2383	2512	2545	1548
60°-70°	762.0	7.9	6.7	55°	1159	1359	1451	1467	1385	1068
70°-80°	534.5	5.6	4.7	65°	734	654	747	782	910	734
80°-90°	345.9	3.6	3.0	75°	429	380	495	577	703	455
90°-100°	197.4	2.1	1.7	85°	133	202	344	444	491	140
100°-110°	145.7	1.5	1.3	90°	22	76	202	317	358	19
110°-120°	97.6	1.0	0.9	95°	21	70	188	295	332	17
120°-130°	66.9	0.7	0.6	105°	22	62	141	215	242	24
130°-140°	46.7	0.5	0.4	115°	26	53	97	144	165	26
140°-150°	32.7	0.3	0.3	125°	30	51	72	101	116	26
150°-160°	21.0	0.2	0.2	135°	30	47	62	76	79	23
160°-170°	11.3	0.1	0.1	145°	30	44	55	63	63	19
170°-180°	3.2	0.0	0.0	155°	30	41	46	52	51	14
0°-30°	2586.7	26.9	22.7	165°	30	37	41	44	44	8
0°-40°	4298.7	44.7	37.7	175°	29	29	31	32	38	3
0°-60°	7349.3	76.4	64.5	180°	27	27	27	27	27	
0°-90°	8991.7	93.5	78.9							
90°-120°	440.6	4.6	3.9							
90°-150°	587.0	6.1	5.1							
90°-180°	622.0	6.5	5.5							
0°-180°	9614.2	100.0	84.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3235	3235	3235	3235	3235
2.5°	3223	3231	3238	3238	3244
5°	3214	3224	3234	3241	3244
7.5°	3196	3209	3228	3239	3247
10°	3171	3188	3216	3233	3244
12.5°	3140	3164	3198	3222	3233
15°	3102	3133	3174	3202	3214
17.5°	3058	3091	3143	3178	3195
20°	3005	3045	3105	3147	3168
22.5°	2946	2993	3062	3112	3133
25°	2884	2935	3012	3070	3096
27.5°	2813	2869	2957	3023	3049
30°	2732	2798	2896	2970	3000
32.5°	2647	2719	2829	2911	2944
35°	2552	2633	2753	2846	2883
37.5°	2447	2537	2671	2773	2815
40°	2332	2433	2582	2694	2735
42.5°	2200	2314	2488	2607	2650
45°	2043	2178	2383	2512	2545
47.5°	1836	2014	2248	2366	2355
50°	1582	1804	2043	2123	2036
52.5°	1352	1572	1762	1788	1636
55°	1159	1359	1451	1467	1385
57.5°	1022	1155	1197	1235	1221
60°	923	953	1011	1056	1097
62.5°	827	791	859	904	997
65°	734	654	747	782	910
67.5°	656	545	663	693	836
70°	579	474	591	638	780
72.5°	506	428	535	603	740
75°	429	380	495	577	703
77.5°	358	334	459	551	658
80°	284	294	419	529	608
82.5°	204	253	390	495	553
85°	133	202	344	444	491
87.5°	70	131	267	379	420
90°	22	76	202	317	358
92.5°	22	73	196	307	347
95°	21	70	188	295	332
97.5°	21	69	178	276	312
100°	22	66	167	255	288
102.5°	22	64	154	235	264
105°	22	62	141	215	242
107.5°	23	60	126	195	221
110°	24	57	114	176	201



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25	55	105	159	182
115°	26	53	97	144	165
117.5°	27	52	89	130	150
120°	28	52	82	120	138
122.5°	29	51	76	110	126
125°	30	51	72	101	116
127.5°	30	50	69	92	106
130°	30	49	66	85	97
132.5°	30	48	64	80	89
135°	30	47	62	76	79
137.5°	30	46	60	71	75
140°	30	45	59	68	70
142.5°	30	44	57	65	67
145°	30	44	55	63	63
147.5°	30	43	53	60	60
150°	30	42	50	57	57
152.5°	30	42	48	54	54
155°	30	41	46	52	51
157.5°	30	41	45	50	49
160°	30	40	43	48	47
162.5°	30	39	42	46	45
165°	30	37	41	44	44
167.5°	29	35	39	42	46
170°	29	33	37	40	45
172.5°	29	31	34	38	44
175°	29	29	31	32	38
177.5°	30	29	28	27	31
180°	27	27	27	27	27

(END OF REPORT)