

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: 145P101

Luminaire Tested: **WBI-432IMA**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 145P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: WBI-432IMA
Description: Wide Surface Mount Wraparound with an injected molded acrylic refractor.
Light Source: Four - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 89.5

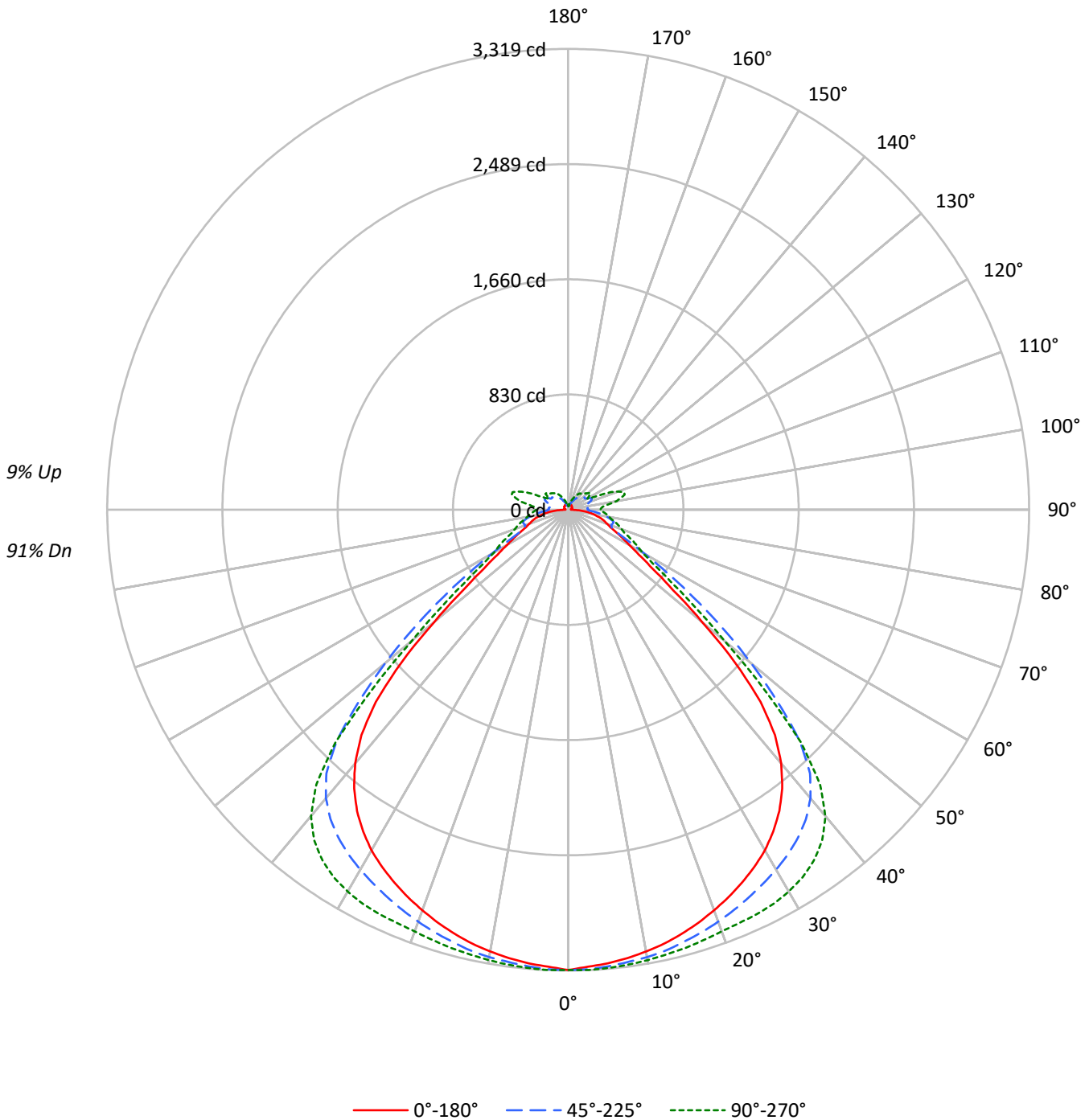
Summary

Lumens per Lamp: 2850 (4 lamps)
Luminaire Lumens: 8899.2 lumens
Efficiency: 78.1%
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.43 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 3.97' x H: 0.17')
CIE Type: Direct

Input Watts (W): 107.8
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	91	91	91	91	88	88	88	88	83	83	83	78	78	78	73	73	73	73	73	73	73	73	71														
1	84	81	78	75	81	78	75	73	74	71	69	69	68	66	65	64	63	63	63	63	63	63	61														
2	77	71	67	63	75	69	65	61	66	62	59	62	59	57	59	56	54	54	54	54	54	54	52														
3	71	64	58	53	69	62	57	52	59	54	51	56	52	49	53	50	47	47	47	47	47	47	45														
4	66	57	51	46	63	56	50	45	53	48	44	50	46	43	48	44	41	41	41	41	41	41	40														
5	61	51	45	40	59	50	44	40	48	43	39	46	41	38	43	40	37	37	37	37	37	37	35														
6	56	47	40	36	54	46	39	35	43	38	34	41	37	33	40	36	33	33	33	33	33	33	31														
7	52	42	36	32	51	41	36	31	40	34	31	38	33	30	36	32	29	29	29	29	29	29	28														
8	49	39	33	28	47	38	32	28	36	31	27	35	30	27	34	29	26	26	26	26	26	26	25														
9	46	36	30	26	44	35	29	25	34	28	25	32	28	24	31	27	24	24	24	24	24	24	22														
10	43	33	27	23	41	32	27	23	31	26	23	30	25	22	29	25	22	22	22	22	22	22	20														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6734	6734	6734
5°	6664	6663	6683
10°	6616	6612	6648
15°	6576	6567	6648
20°	6537	6546	6683
25°	6512	6544	6807
30°	6486	6573	6949
35°	6384	6606	7033
40°	6112	6546	6912
45°	5402	6059	6045
50°	3793	4760	4041
55°	2483	3331	2696
60°	1917	2139	2054
65°	1667	1488	1888
70°	1587	1471	1799
75°	1670	1847	1895
80°	1739	1941	2047
85°	1670	1944	2533



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	313.9	3.5	2.8	0°	3315	3315	3315	3315	3315	
10°-20°	909.9	10.2	8.0	5°	3280	3291	3301	3308	3313	312
20°-30°	1423.9	16.0	12.5	15°	3162	3186	3221	3250	3267	893
30°-40°	1792.4	20.1	15.7	25°	2962	3000	3080	3164	3214	1366
40°-50°	1684.2	18.9	14.8	35°	2650	2725	2884	3020	3084	1650
50°-60°	911.2	10.2	8.0	45°	1959	2113	2358	2398	2367	1463
60°-70°	493.6	5.5	4.3	55°	743	939	1099	1060	897	707
70°-80°	332.1	3.7	2.9	65°	378	527	388	586	498	383
80°-90°	215.2	2.4	1.9	75°	246	279	339	340	354	257
90°-100°	157.8	1.8	1.4	85°	106	162	196	258	264	102
100°-110°	193.5	2.2	1.7	90°	20	81	140	211	230	16
110°-120°	162.9	1.8	1.4	95°	19	77	140	217	249	16
120°-130°	114.3	1.3	1.0	105°	25	66	135	325	421	26
130°-140°	89.2	1.0	0.8	115°	31	77	187	257	234	30
140°-150°	59.8	0.7	0.5	125°	34	77	144	183	199	30
150°-160°	30.9	0.3	0.3	135°	36	73	127	157	167	28
160°-170°	11.7	0.1	0.1	145°	39	58	100	134	143	24
170°-180°	2.9	0.0	0.0	155°	38	42	64	90	96	18
0°-30°	2647.7	29.8	23.2	165°	35	30	37	47	50	10
0°-40°	4440.1	49.9	38.9	175°	36	34	27	24	26	3
0°-60°	7035.5	79.1	61.7	180°	36	36	36	36	36	
0°-90°	8076.4	90.8	70.8							
90°-120°	514.2	5.8	4.5							
90°-150°	777.4	8.7	6.8							
90°-180°	823.0	9.2	7.2							
0°-180°	8899.2	100.0	78.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3315	3315	3315	3315	3315
2.5°	3294	3305	3313	3316	3319
5°	3280	3291	3301	3308	3313
7.5°	3257	3271	3286	3297	3305
10°	3231	3250	3272	3284	3294
12.5°	3201	3222	3252	3267	3280
15°	3162	3186	3221	3250	3267
17.5°	3119	3148	3192	3230	3249
20°	3070	3105	3158	3208	3232
22.5°	3019	3056	3120	3186	3221
25°	2962	3000	3080	3164	3214
27.5°	2901	2941	3037	3143	3201
30°	2832	2879	2993	3117	3176
32.5°	2748	2808	2944	3075	3140
35°	2650	2725	2884	3020	3084
37.5°	2531	2623	2811	2946	3004
40°	2386	2497	2713	2838	2880
42.5°	2203	2338	2577	2670	2684
45°	1959	2113	2358	2398	2367
47.5°	1631	1782	2041	1999	1909
50°	1260	1421	1718	1612	1469
52.5°	953	1140	1401	1301	1146
55°	743	939	1099	1060	897
57.5°	603	793	840	894	721
60°	506	687	634	772	615
62.5°	439	602	483	675	558
65°	378	527	388	586	498
67.5°	328	458	342	512	440
70°	298	398	328	451	407
72.5°	273	338	335	392	381
75°	246	279	339	340	354
77.5°	212	235	313	298	322
80°	184	208	277	278	299
82.5°	150	190	241	270	284
85°	106	162	196	258	264
87.5°	55	118	157	234	243
90°	20	81	140	211	230
92.5°	19	81	142	216	239
95°	19	77	140	217	249
97.5°	20	73	134	226	289
100°	22	67	119	252	352
102.5°	23	66	126	275	386
105°	25	66	135	325	421
107.5°	26	67	150	359	420
110°	28	70	167	352	383



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29	73	182	324	328
115°	31	77	187	257	234
117.5°	32	79	182	191	181
120°	33	79	166	159	159
122.5°	33	78	148	164	174
125°	34	77	144	183	199
127.5°	35	78	147	185	197
130°	35	76	139	174	185
132.5°	35	73	130	162	173
135°	36	73	127	157	167
137.5°	36	72	123	155	161
140°	37	68	117	147	154
142.5°	38	63	110	140	144
145°	39	58	100	134	143
147.5°	39	53	92	123	131
150°	39	48	81	113	119
152.5°	39	45	73	100	107
155°	38	42	64	90	96
157.5°	37	39	56	79	85
160°	36	36	50	68	73
162.5°	35	32	43	57	61
165°	35	30	37	47	50
167.5°	35	30	32	38	41
170°	35	30	29	31	36
172.5°	36	32	26	27	29
175°	36	34	27	24	26
177.5°	37	36	33	30	32
180°	36	36	36	36	36

(END OF REPORT)