

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: 147P100

Luminaire Tested: **DIM-432-WG/PA**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 147P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DIM-432-WG/PA
Description: DIM Series Heavy Duty Industrial Luminaire
equipped with wire guard and .125 pattern
12 acrylic lens.
Light Source: Four-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B4321120 Electronic

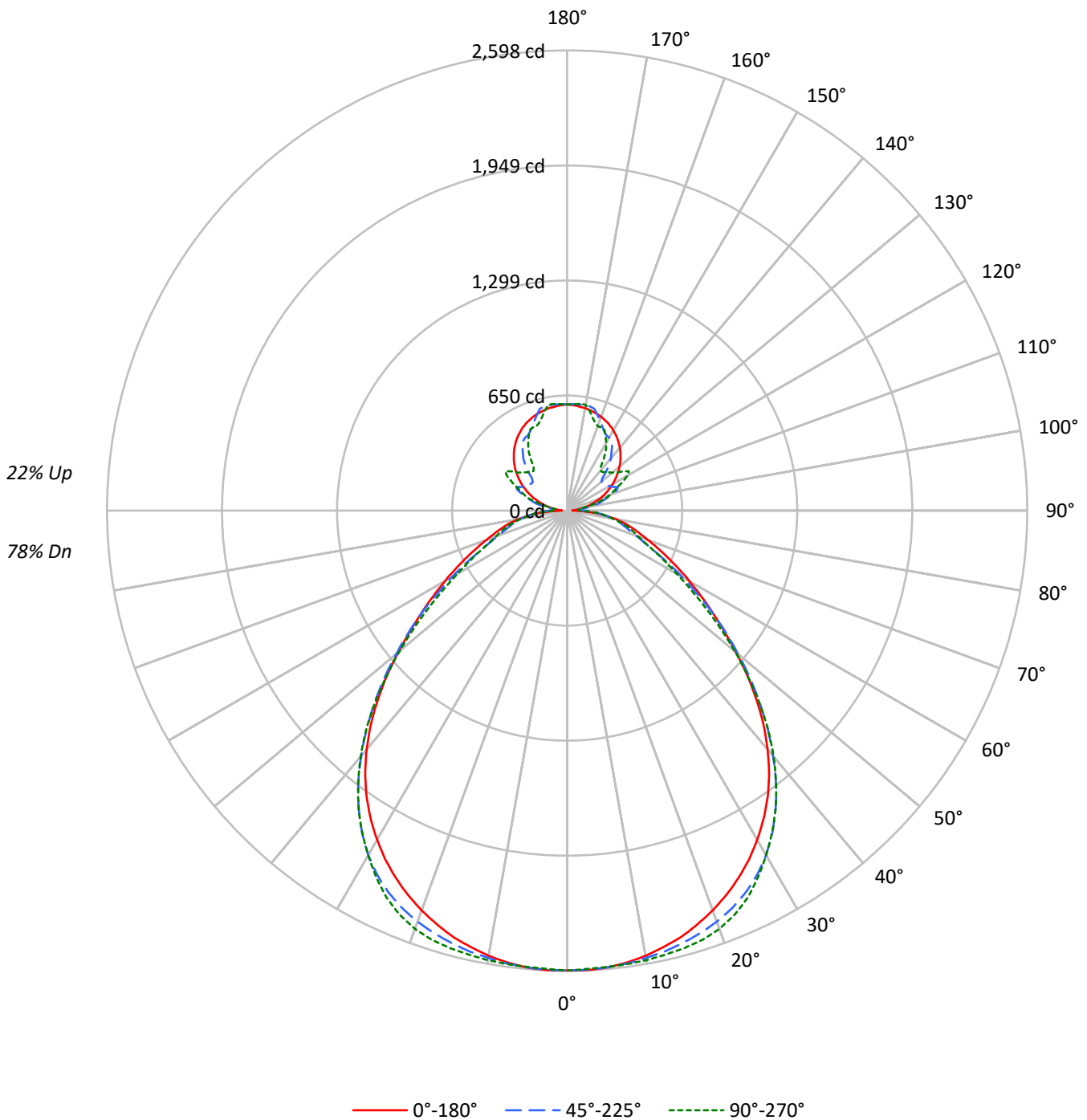
Summary

Lumens per Lamp: 2900 (4 lamps)
Luminaire Lumens: 8356.9 lumens
Efficiency: 72.0%
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.32
Luminous Opening: Rectangular (W 0.88' x L: 3.88' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 111.7
Input Voltage (V): NR
Input Current (A_{in}): 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	82	82	82	82	78	78	78	78	71	71	71	65	65	65	59	59	59	56				
1	75	72	69	66	71	69	66	64	63	61	59	57	56	54	52	51	50	47				
2	69	63	58	55	65	60	56	53	55	52	49	51	48	46	46	44	42	40				
3	63	56	50	46	60	53	49	45	49	45	42	45	42	39	41	39	37	34				
4	58	50	44	39	55	48	42	38	44	40	36	40	37	34	37	34	32	30				
5	53	45	39	34	51	43	37	33	40	35	31	37	33	30	34	31	28	26				
6	49	40	34	30	47	39	33	29	36	31	28	33	29	26	31	27	25	23				
7	46	37	31	26	43	35	30	26	33	28	25	30	26	23	28	25	22	21				
8	42	33	28	24	41	32	27	23	30	25	22	28	24	21	26	23	20	18				
9	40	31	25	21	38	30	24	21	28	23	20	26	22	19	24	21	18	17				
10	37	28	23	19	36	27	22	19	26	21	18	24	20	17	22	19	16	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8141	8141	8141
5°	8147	8147	8137
10°	8123	8165	8203
15°	8084	8201	8298
20°	8013	8240	8383
25°	7917	8239	8343
30°	7768	8130	8133
35°	7554	7856	7856
40°	7206	7403	7423
45°	6707	6823	6805
50°	6072	6140	6028
55°	5465	5443	5192
60°	4997	4702	4489
65°	4636	4057	4035
70°	4454	3804	3904
75°	4614	4009	4275
80°	5055	4838	4657
85°	5683	6438	6582



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	246.4	2.9	2.1	0°	2597	2597	2597	2597	2597	
10°-20°	713.4	8.5	6.1	5°	2589	2587	2589	2592	2586	246
20°-30°	1087.8	13.0	9.4	15°	2491	2498	2527	2554	2557	702
30°-40°	1267.0	15.2	10.9	25°	2289	2321	2382	2413	2412	1053
40°-50°	1181.3	14.1	10.2	35°	1974	2017	2053	2051	2053	1230
50°-60°	888.9	10.6	7.7	45°	1513	1541	1539	1536	1535	1163
60°-70°	573.8	6.9	4.9	55°	1000	1017	996	972	950	900
70°-80°	374.1	4.5	3.2	65°	625	603	547	545	544	625
80°-90°	196.0	2.3	1.7	75°	381	387	331	327	353	403
90°-100°	93.2	1.1	0.8	85°	158	206	179	185	183	152
100°-110°	193.2	2.3	1.7	90°	30	103	88	73	67	25
110°-120°	271.5	3.2	2.3	95°	50	100	79	71	70	51
120°-130°	283.2	3.4	2.4	105°	143	186	204	192	177	152
130°-140°	262.1	3.1	2.3	115°	246	182	316	323	314	243
140°-150°	268.3	3.2	2.3	125°	341	293	259	342	387	305
150°-160°	237.8	2.8	2.1	135°	426	384	310	288	307	329
160°-170°	161.6	1.9	1.4	145°	495	468	442	391	362	310
170°-180°	57.3	0.7	0.5	155°	545	558	494	501	500	251
0°-30°	2047.6	24.5	17.7	165°	576	585	594	559	546	163
0°-40°	3314.6	39.7	28.6	175°	594	596	602	604	603	56
0°-60°	5384.8	64.4	46.4	180°	599	599	599	599	599	
0°-90°	6528.7	78.1	56.3							
90°-120°	557.9	6.7	4.8							
90°-150°	1371.5	16.4	11.8							
90°-180°	1828.0	21.9	15.8							
0°-180°	8356.9	100.0	72.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2597	2597	2597	2597	2597
2.5°	2598	2596	2595	2596	2590
5°	2589	2587	2589	2592	2586
7.5°	2574	2573	2579	2586	2583
10°	2552	2553	2565	2579	2577
12.5°	2523	2528	2549	2568	2568
15°	2491	2498	2527	2554	2557
17.5°	2449	2462	2501	2536	2541
20°	2402	2422	2470	2509	2513
22.5°	2349	2375	2431	2467	2470
25°	2289	2321	2382	2413	2412
27.5°	2222	2258	2320	2341	2334
30°	2146	2189	2246	2252	2247
32.5°	2064	2109	2156	2154	2154
35°	1974	2017	2053	2051	2053
37.5°	1873	1915	1937	1935	1938
40°	1761	1800	1809	1809	1814
42.5°	1641	1675	1677	1673	1680
45°	1513	1541	1539	1536	1535
47.5°	1380	1406	1399	1398	1382
50°	1245	1275	1259	1253	1236
52.5°	1116	1143	1127	1110	1089
55°	1000	1017	996	972	950
57.5°	894	899	866	839	824
60°	797	790	750	724	716
62.5°	708	691	643	626	625
65°	625	603	547	545	544
67.5°	552	531	471	471	475
70°	486	475	415	411	426
72.5°	429	427	368	366	390
75°	381	387	331	327	353
77.5°	333	348	302	291	307
80°	280	308	268	246	258
82.5°	220	260	217	218	221
85°	158	206	179	185	183
87.5°	82	146	141	133	119
90°	30	103	88	73	67
92.5°	37	90	82	71	72
95°	50	100	79	71	70
97.5°	72	128	95	70	66
100°	95	152	133	105	91
102.5°	119	182	175	149	140
105°	143	186	204	192	177
107.5°	170	179	233	234	227
110°	195	180	267	259	255



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221	177	304	289	283
115°	246	182	316	323	314
117.5°	270	205	290	365	353
120°	295	240	275	390	393
122.5°	319	267	267	376	414
125°	341	293	259	342	387
127.5°	364	322	252	323	353
130°	386	348	253	310	334
132.5°	407	367	269	298	319
135°	426	384	310	288	307
137.5°	445	399	351	285	295
140°	463	420	384	298	294
142.5°	479	445	410	345	311
145°	495	468	442	391	362
147.5°	509	493	464	426	407
150°	522	518	475	453	440
152.5°	534	542	479	487	470
155°	545	558	494	501	500
157.5°	554	569	516	502	508
160°	563	576	539	511	506
162.5°	570	581	568	532	522
165°	576	585	594	559	546
167.5°	582	589	602	595	579
170°	587	592	604	608	606
172.5°	590	594	603	608	607
175°	594	596	602	604	603
177.5°	596	596	601	602	601
180°	599	599	599	599	599

(END OF REPORT)