

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: 147P102

Luminaire Tested: **DIM-SS-232**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 147P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DIM-SS-232
Description: DIM Series Heavy Duty Industrial Luminaire with
a Silver Steel Reflector.
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Motorola M2-RN-T8-1LL-120 Electronic

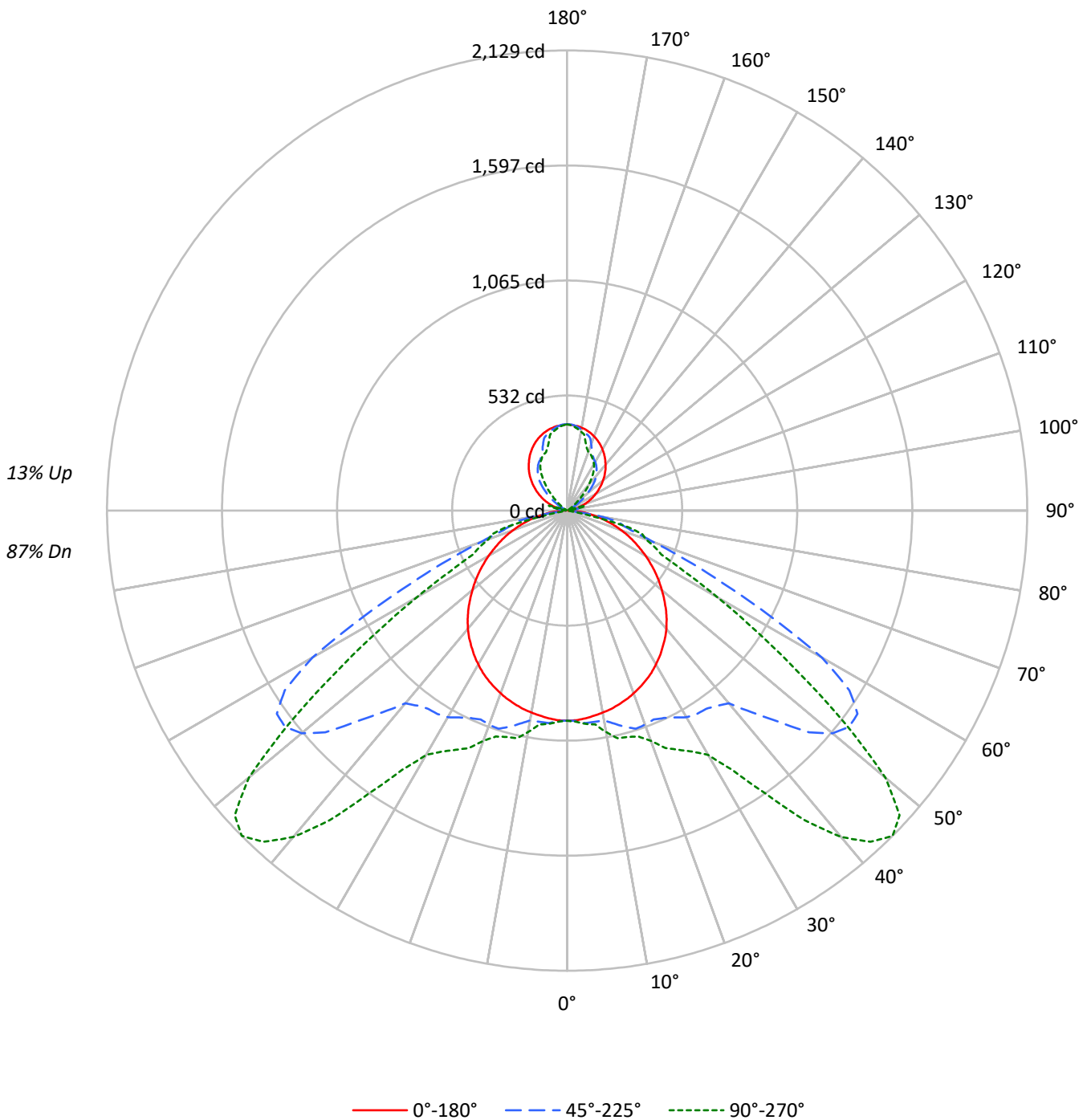
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 5496.1 lumens
Efficiency: 96.4%
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 2.42 / 2.19
Luminous Opening: Rectangular (W 0.88' x L: 3.8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 59.2
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	112	112	112	112	108	108	108	108	100	100	100	93	93	93	87	87	87	84
1	102	97	93	89	98	94	90	87	87	84	82	81	79	77	76	74	73	70
2	92	84	77	71	88	81	75	70	75	70	66	70	66	63	66	62	59	57
3	83	73	64	58	80	70	63	57	65	59	54	61	56	51	57	53	49	46
4	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	38
5	69	56	47	40	66	54	46	39	50	43	38	47	41	36	44	39	35	32
6	63	49	41	34	60	48	40	33	45	38	32	42	36	31	39	34	30	27
7	58	44	35	29	55	43	35	29	40	33	28	38	31	27	35	30	26	23
8	53	40	31	26	51	39	31	25	36	29	24	34	28	23	32	27	22	20
9	49	36	28	22	47	35	27	22	33	26	21	31	25	21	29	24	20	18
10	46	33	25	20	44	32	25	20	30	24	19	28	22	18	27	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3114	3114	3114
5°	3103	3174	3187
10°	3087	3204	3386
15°	3077	3436	3595
20°	3068	3593	3862
25°	3057	3743	4315
30°	3040	4083	4827
35°	3015	4380	6241
40°	2986	4867	8242
45°	2926	6251	9644
50°	2850	7988	9578
55°	2776	9159	7316
60°	2684	8719	5138
65°	2600	6026	3646
70°	2501	3943	3624
75°	2376	3329	3515
80°	2232	2841	184
85°	2205	662	331



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	93.9	1.7	1.6	0°	972	972	972	972	972	
10°-20°	288.6	5.3	5.1	5°	965	971	987	993	991	92
20°-30°	490.8	8.9	8.6	15°	928	954	1036	1075	1084	262
30°-40°	735.6	13.4	12.9	25°	865	949	1059	1185	1221	399
40°-50°	1070.7	19.5	18.8	35°	771	904	1120	1418	1596	483
50°-60°	1059.9	19.3	18.6	45°	646	838	1380	1993	2129	498
60°-70°	672.6	12.2	11.8	55°	497	764	1640	1481	1310	444
70°-80°	320.7	5.8	5.6	65°	343	905	795	529	481	340
80°-90°	42.7	0.8	0.7	75°	192	432	269	319	284	203
90°-100°	13.9	0.3	0.2	85°	60	69	18	9	9	61
100°-110°	36.2	0.7	0.6	90°	10	12	7	6	6	8
110°-120°	37.8	0.7	0.7	95°	7	21	6	5	5	10
120°-130°	78.8	1.4	1.4	105°	52	11	7	71	88	56
130°-140°	126.6	2.3	2.2	115°	118	71	10	6	5	117
140°-150°	151.7	2.8	2.7	125°	184	143	74	29	20	165
150°-160°	138.3	2.5	2.4	135°	248	197	169	118	101	191
160°-170°	100.2	1.8	1.8	145°	303	264	237	220	208	189
170°-180°	37.2	0.7	0.7	155°	348	333	281	276	273	160
0°-30°	873.3	15.9	15.3	165°	379	373	363	345	328	107
0°-40°	1608.9	29.3	28.2	175°	395	395	395	393	389	38
0°-60°	3739.5	68.0	65.6	180°	399	399	399	399	399	
0°-90°	4775.4	86.9	83.8							
90°-120°	87.9	1.6	1.5							
90°-150°	445.0	8.1	7.8							
90°-180°	721.0	13.1	12.6							
0°-180°	5496.1	100.0	96.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972	972	972	972	972
2.5°	971	972	974	978	978
5°	965	971	987	993	991
7.5°	957	973	986	991	998
10°	949	975	985	1027	1041
12.5°	940	971	1010	1069	1079
15°	928	954	1036	1075	1084
17.5°	915	947	1058	1079	1096
20°	900	947	1054	1100	1133
22.5°	883	949	1046	1150	1189
25°	865	949	1059	1185	1221
27.5°	845	949	1079	1208	1257
30°	822	943	1104	1243	1305
32.5°	798	923	1116	1288	1422
35°	771	904	1120	1418	1596
37.5°	744	872	1138	1579	1805
40°	714	861	1164	1770	1971
42.5°	681	845	1265	1908	2078
45°	646	838	1380	1993	2129
47.5°	609	826	1518	2024	2086
50°	572	809	1603	1962	1922
52.5°	535	778	1644	1788	1627
55°	497	764	1640	1481	1310
57.5°	458	763	1549	1179	1032
60°	419	812	1361	921	802
62.5°	380	872	1059	708	611
65°	343	905	795	529	481
67.5°	306	889	590	434	436
70°	267	822	421	377	387
72.5°	229	662	318	345	365
75°	192	432	269	319	284
77.5°	156	274	244	166	113
80°	121	159	154	23	10
82.5°	89	123	33	10	9
85°	60	69	18	9	9
87.5°	31	25	12	8	8
90°	10	12	7	6	6
92.5°	5	12	6	5	6
95°	7	21	6	5	5
97.5°	15	15	24	7	6
100°	26	9	51	43	30
102.5°	38	8	36	73	70
105°	52	11	7	71	88
107.5°	68	20	5	22	48
110°	84	35	5	6	8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101	52	5	5	6
115°	118	71	10	6	5
117.5°	135	91	20	6	6
120°	151	110	34	7	6
122.5°	168	128	53	17	9
125°	184	143	74	29	20
127.5°	201	158	97	46	33
130°	217	173	121	68	52
132.5°	233	186	145	93	75
135°	248	197	169	118	101
137.5°	263	208	191	144	128
140°	276	225	209	171	154
142.5°	290	242	223	196	182
145°	303	264	237	220	208
147.5°	316	288	250	238	231
150°	327	308	260	252	248
152.5°	338	321	267	265	261
155°	348	333	281	276	273
157.5°	357	344	299	282	282
160°	365	355	326	293	287
162.5°	373	365	352	313	303
165°	379	373	363	345	328
167.5°	385	381	372	365	361
170°	389	387	381	375	370
172.5°	393	392	389	385	380
175°	395	395	395	393	389
177.5°	397	398	399	398	395
180°	399	399	399	399	399

(END OF REPORT)