

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: 147P109

Luminaire Tested: **DIM-SS-332**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 147P109
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DIM-SS-332
Description: DIM Series Heavy Duty Industrial Luminaire with
a Silver Steel Reflector.
Light Source: Three - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: ADVANCE REL-3P32-TP Electronic - L.O.B.F.= 89.5%

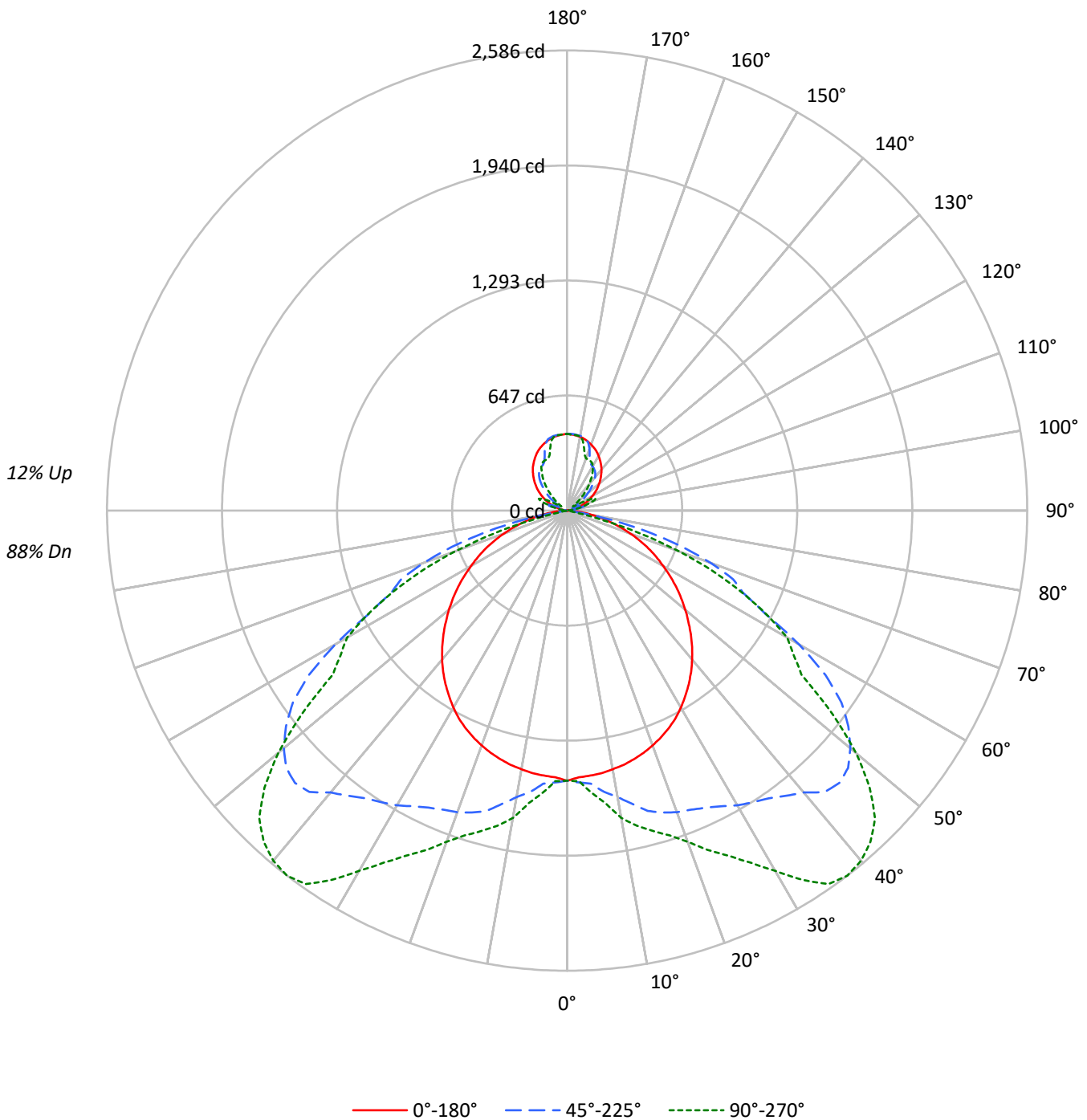
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 7987.0 lumens
Efficiency: 95.1%
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 2.12 / 1.96
Luminous Opening: Rectangular w/ Sides (W: 1.06' x L: 4.15' x H: 0.34')
CIE Type: Semi-Direct

Input Watts (W): 90
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	111	111	111	111	107	107	107	107	100	100	100	93	93	93	87	87	87	84
1	101	97	93	89	97	93	90	86	87	84	82	82	79	77	77	75	73	70
2	91	84	77	72	88	81	75	70	76	71	67	71	67	63	67	63	60	58
3	83	73	65	58	79	70	63	57	66	60	55	62	57	53	58	54	50	48
4	75	64	55	49	72	62	54	48	58	51	46	54	49	44	51	46	42	40
5	69	56	48	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34
6	63	50	41	35	60	49	40	35	46	39	33	43	37	32	41	35	31	29
7	58	45	36	30	56	44	36	30	41	34	29	39	33	28	37	31	27	25
8	54	41	32	27	52	39	32	26	37	30	25	35	29	25	33	28	24	22
9	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	19
10	47	34	26	21	45	33	26	21	31	25	20	30	24	20	28	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3714	3714	3714
5°	3646	3693	3806
10°	3615	3868	4122
15°	3587	4112	4348
20°	3550	4256	4617
25°	3511	4390	5024
30°	3448	4642	5574
35°	3365	4916	6249
40°	3267	5332	6466
45°	3144	5829	6411
50°	3007	5906	5838
55°	2857	5705	4702
60°	2674	4939	4492
65°	2487	3915	3694
70°	2213	3436	2540
75°	1861	2241	925
80°	1414	582	30
85°	841	66	24



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	150.2	1.9	1.8	0°	1518	1518	1518	1518	1518	
10°-20°	482.2	6.0	5.7	5°	1495	1524	1541	1582	1593	142
20°-30°	841.1	10.5	10.0	15°	1447	1566	1747	1837	1864	408
30°-40°	1220.3	15.3	14.5	25°	1350	1603	1842	2067	2139	622
40°-50°	1477.1	18.5	17.6	35°	1191	1536	1974	2425	2562	745
50°-60°	1374.3	17.2	16.4	45°	983	1440	2164	2402	2447	758
60°-70°	1038.6	13.0	12.4	55°	748	1341	1881	1721	1607	668
70°-80°	435.3	5.4	5.2	65°	505	1199	1089	1122	1077	498
80°-90°	44.9	0.6	0.5	75°	257	542	489	286	215	273
90°-100°	19.7	0.2	0.2	85°	58	59	10	3	4	65
100°-110°	78.7	1.0	0.9	90°	2	8	3	4	4	4
110°-120°	95.6	1.2	1.1	95°	4	24	13	8	8	8
120°-130°	101.2	1.3	1.2	105°	56	18	106	99	95	60
130°-140°	148.7	1.9	1.8	115°	128	89	32	125	157	126
140°-150°	172.7	2.2	2.1	125°	200	167	102	49	39	179
150°-160°	154.2	1.9	1.8	135°	268	216	200	155	136	207
160°-170°	111.5	1.4	1.3	145°	328	298	272	256	244	205
170°-180°	40.8	0.5	0.5	155°	377	381	304	306	308	173
0°-30°	1473.5	18.4	17.5	165°	410	412	415	387	367	116
0°-40°	2693.8	33.7	32.1	175°	427	428	431	431	428	41
0°-60°	5545.2	69.4	66.0	180°	431	431	431	431	431	
0°-90°	7064.0	88.4	84.1							
90°-120°	193.9	2.4	2.3							
90°-150°	616.5	7.7	7.3							
90°-180°	923.0	11.6	11.0							
0°-180°	7987.0	100.0	95.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518	1518	1518	1518	1518
2.5°	1500	1520	1529	1526	1522
5°	1495	1524	1541	1582	1593
7.5°	1488	1517	1595	1646	1659
10°	1476	1531	1635	1721	1753
12.5°	1464	1551	1687	1790	1815
15°	1447	1566	1747	1837	1864
17.5°	1428	1571	1779	1876	1914
20°	1404	1578	1804	1925	1980
22.5°	1379	1590	1819	1990	2064
25°	1350	1603	1842	2067	2139
27.5°	1317	1602	1873	2129	2230
30°	1278	1586	1913	2212	2338
32.5°	1236	1565	1943	2305	2461
35°	1191	1536	1974	2425	2562
37.5°	1144	1507	2020	2488	2586
40°	1093	1481	2068	2496	2569
42.5°	1039	1459	2145	2464	2524
45°	983	1440	2164	2402	2447
47.5°	924	1418	2141	2313	2307
50°	867	1388	2078	2164	2120
52.5°	808	1359	1992	1968	1881
55°	748	1341	1881	1721	1607
57.5°	685	1320	1721	1475	1509
60°	624	1323	1507	1394	1428
62.5°	565	1278	1254	1301	1263
65°	505	1199	1089	1122	1077
67.5°	442	1086	1011	936	881
70°	379	946	856	732	668
72.5°	317	748	679	517	437
75°	257	542	489	286	215
77.5°	200	453	289	95	51
80°	147	319	108	9	6
82.5°	98	181	21	5	4
85°	58	59	10	3	4
87.5°	22	17	4	2	2
90°	2	8	3	4	4
92.5°	0	13	6	6	6
95°	4	24	13	8	8
97.5°	13	40	29	25	22
100°	26	43	55	47	43
102.5°	40	26	80	73	69
105°	56	18	106	99	95
107.5°	73	30	108	130	123
110°	91	48	86	155	156



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109	68	51	150	173
115°	128	89	32	125	157
117.5°	146	109	34	80	122
120°	164	130	55	48	76
122.5°	182	150	78	36	46
125°	200	167	102	49	39
127.5°	218	182	128	74	55
130°	235	194	152	100	81
132.5°	252	205	176	127	108
135°	268	216	200	155	136
137.5°	284	228	223	182	165
140°	300	244	244	207	193
142.5°	315	268	260	232	218
145°	328	298	272	256	244
147.5°	341	325	280	278	268
150°	354	350	286	293	289
152.5°	366	368	292	302	302
155°	377	381	304	306	308
157.5°	386	390	330	309	310
160°	395	399	367	317	312
162.5°	403	406	397	345	327
165°	410	412	415	387	367
167.5°	416	418	422	416	405
170°	421	422	426	427	423
172.5°	424	426	428	429	426
175°	427	428	431	431	428
177.5°	429	429	432	431	428
180°	431	431	431	431	431

(END OF REPORT)