

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: 147P108

Luminaire Tested: **DIM-232-INV-IND**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 147P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DIM-232-INV-IND
Description: Inverted DIM Series Heavy Duty Industrial Luminaire
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

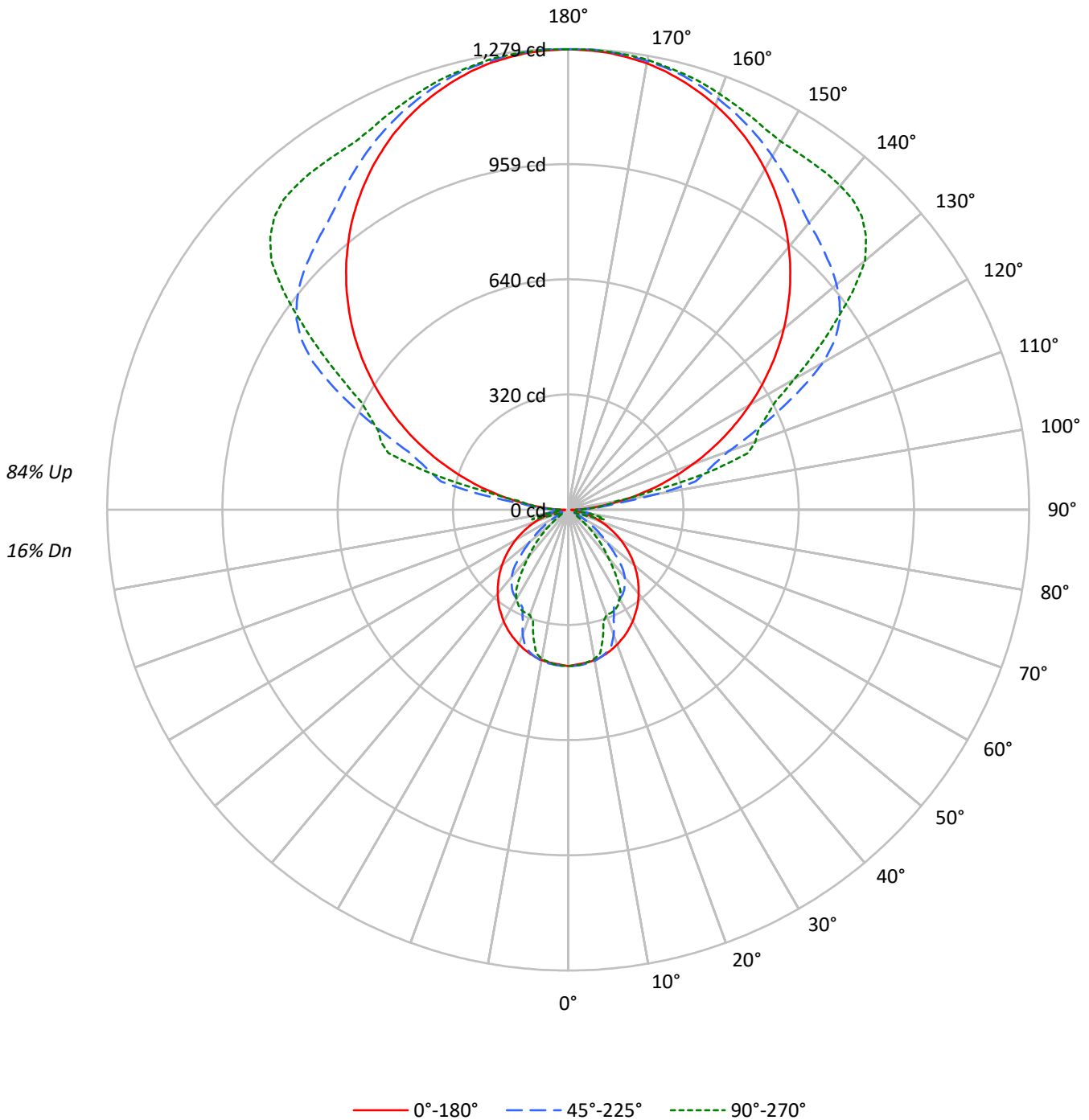
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 5175.2 lumens
Efficiency: 90.8%
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 0.99 / 1.18
Luminous Opening: Rectangular (W 0.88' x L: 3.88' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.7
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	90	90	90	90	79	79	79	79	59	59	59	40	40	40	23	23	23	15
1	82	78	75	72	72	69	66	64	51	50	48	35	34	33	20	20	19	13
2	75	68	63	59	65	60	56	52	45	42	40	31	29	28	18	17	17	11
3	68	60	54	49	60	53	48	44	40	36	34	28	26	24	16	15	14	9
4	62	53	47	42	55	47	42	37	35	32	29	25	22	20	15	13	12	8
5	57	47	41	36	50	42	36	32	32	28	25	22	20	18	13	12	11	7
6	53	42	36	31	46	38	32	28	28	25	22	20	17	16	12	11	10	7
7	49	38	31	27	43	34	28	24	26	22	19	18	16	14	11	10	9	6
8	45	35	28	23	39	31	25	21	23	19	17	17	14	12	10	9	8	5
9	42	31	25	21	37	28	22	19	21	18	15	15	13	11	9	8	7	5
10	39	29	23	18	34	26	20	17	20	16	13	14	12	10	9	7	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1360	1360	1360
5°	1350	1359	1356
10°	1350	1356	1337
15°	1340	1331	1204
20°	1328	1231	1037
25°	1314	1038	1062
30°	1296	1035	1035
35°	1274	1037	915
40°	1244	998	708
45°	1210	873	523
50°	1170	683	312
55°	1120	492	137
60°	1060	282	125
65°	979	141	148
70°	880	165	348
75°	739	339	1260
80°	560	1173	903
85°	396	791	719



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	41.0	0.8	0.7	0°	434	434	434	434	434	
10°-20°	111.5	2.2	2.0	5°	429	430	432	433	431	41
20°-30°	153.5	3.0	2.7	15°	413	413	410	392	371	116
30°-40°	171.7	3.3	3.0	25°	380	376	300	306	307	175
40°-50°	143.6	2.8	2.5	35°	333	297	271	258	239	208
50°-60°	93.6	1.8	1.6	45°	273	218	197	137	118	211
60°-70°	52.0	1.0	0.9	55°	205	169	90	37	25	183
70°-80°	51.8	1.0	0.9	65°	132	86	19	20	20	131
80°-90°	29.9	0.6	0.5	75°	61	21	28	86	104	65
90°-100°	108.5	2.1	1.9	85°	11	34	22	20	20	13
100°-110°	390.0	7.5	6.8	90°	15	39	30	24	21	10
110°-120°	594.5	11.5	10.4	95°	72	128	94	81	78	76
120°-130°	753.2	14.6	13.2	105°	260	387	391	443	405	275
130°-140°	778.4	15.0	13.7	115°	476	606	639	593	605	471
140°-150°	686.5	13.3	12.0	125°	684	738	920	933	902	611
150°-160°	543.1	10.5	9.5	135°	870	901	1007	1120	1152	671
160°-170°	351.1	6.8	6.2	145°	1026	1044	1085	1148	1177	642
170°-180°	121.4	2.3	2.1	155°	1149	1160	1177	1195	1203	529
0°-30°	305.9	5.9	5.4	165°	1231	1235	1245	1249	1251	348
0°-40°	477.6	9.2	8.4	175°	1273	1274	1276	1277	1276	121
0°-60°	714.8	13.8	12.5	180°	1278	1278	1278	1278	1278	
0°-90°	848.4	16.4	14.9							
90°-120°	1093.1	21.1	19.2							
90°-150°	3311.2	64.0	58.1							
90°-180°	4327.0	83.6	75.9							
0°-180°	5175.2	100.0	90.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	434	434	434	434	434
2.5°	431	432	434	435	433
5°	429	430	432	433	431
7.5°	427	428	430	430	426
10°	424	424	426	424	420
12.5°	419	419	419	414	409
15°	413	413	410	392	371
17.5°	406	406	397	345	325
20°	398	397	369	313	311
22.5°	389	387	330	308	310
25°	380	376	300	306	307
27.5°	369	363	290	300	299
30°	358	348	286	289	286
32.5°	345	327	280	276	270
35°	333	297	271	258	239
37.5°	319	267	258	227	205
40°	304	243	244	194	173
42.5°	289	228	225	164	145
45°	273	218	197	137	118
47.5°	257	207	167	110	91
50°	240	196	140	84	64
52.5°	223	183	115	59	41
55°	205	169	90	37	25
57.5°	187	153	67	24	20
60°	169	133	45	20	20
62.5°	151	109	28	20	20
65°	132	86	19	20	20
67.5°	114	66	18	20	22
70°	96	48	18	28	38
72.5°	78	31	19	45	65
75°	61	21	28	86	104
77.5°	45	19	51	89	87
80°	31	21	65	59	50
82.5°	19	29	40	24	23
85°	11	34	22	20	20
87.5°	8	28	23	20	19
90°	15	39	30	24	21
92.5°	38	73	60	51	48
95°	72	128	94	81	78
97.5°	111	194	131	111	109
100°	157	232	251	146	138
102.5°	207	302	362	282	237
105°	260	387	391	443	405
107.5°	313	470	426	503	523
110°	367	529	472	519	553



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	422	571	552	555	570
115°	476	606	639	593	605
117.5°	529	638	731	663	647
120°	582	667	817	750	724
122.5°	634	700	877	840	812
125°	684	738	920	933	902
127.5°	733	779	949	1015	995
130°	781	821	972	1066	1075
132.5°	826	862	991	1101	1121
135°	870	901	1007	1120	1152
137.5°	912	940	1024	1132	1168
140°	952	976	1039	1139	1174
142.5°	991	1011	1060	1143	1177
145°	1026	1044	1085	1148	1177
147.5°	1060	1076	1109	1152	1178
150°	1092	1106	1133	1164	1180
152.5°	1121	1134	1156	1179	1189
155°	1149	1160	1177	1195	1203
157.5°	1173	1182	1197	1210	1215
160°	1195	1202	1214	1225	1228
162.5°	1214	1219	1231	1238	1241
165°	1231	1235	1245	1249	1251
167.5°	1246	1249	1256	1260	1259
170°	1258	1260	1264	1268	1268
172.5°	1266	1268	1271	1273	1273
175°	1273	1274	1276	1277	1276
177.5°	1276	1277	1279	1279	1278
180°	1278	1278	1278	1278	1278

(END OF REPORT)