

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: 223P136

Luminaire Tested: **TDI-232RP**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 223P136  
Test Lab: METALUX RESEARCH LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RDI-232RP  
Description: 1 X 4 RDI SERIES LUMINAIRE WITH A CENTER BASKET.  
Light Source: TWO - FO32/35K - 2800 LUMENS EA. - 32 WATTS EA.  
Ballast/Driver: UNIVERSAL B232IUNVHP-B

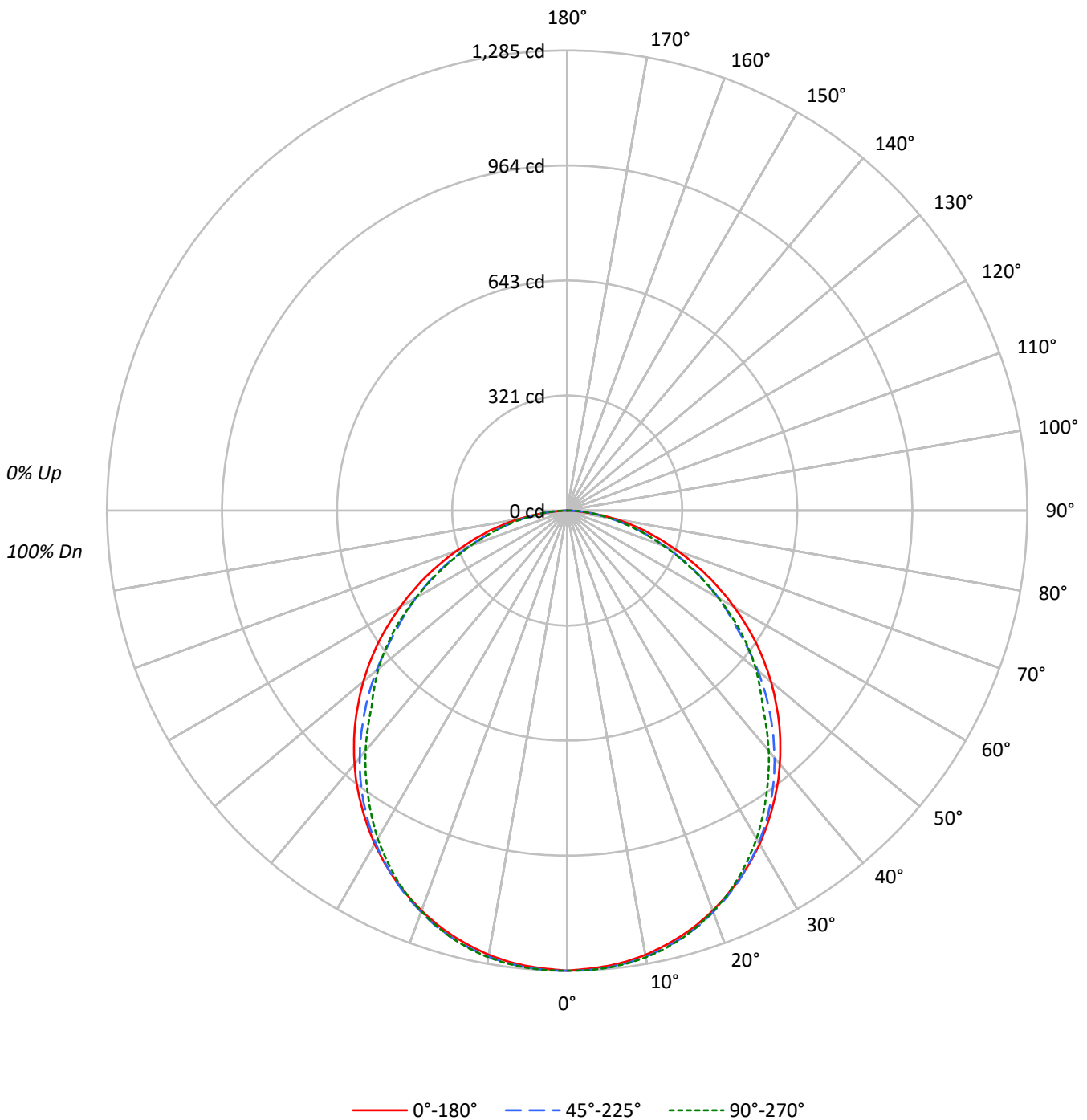
**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3440.8 lumens  
Efficiency: 61.4%  
Efficacy: 62.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.88' x L: 3.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 55  
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

TEST NUMBER: 223P136  
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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	73	73	73	73	71	71	71	71	68	68	68	65	65	65	63	63	63	61
1	67	64	62	59	65	63	60	58	60	58	56	58	56	55	55	54	53	52
2	61	56	52	48	59	55	51	48	53	50	47	51	48	46	49	47	45	43
3	56	49	44	40	54	48	44	40	47	43	39	45	42	39	43	40	38	37
4	51	44	38	34	50	43	38	34	41	37	34	40	36	33	39	35	33	31
5	47	39	34	30	46	39	33	30	37	33	29	36	32	29	35	31	29	27
6	43	35	30	26	42	35	30	26	34	29	26	33	29	25	32	28	25	24
7	40	32	27	23	39	32	27	23	31	26	23	30	26	23	29	25	22	21
8	38	29	24	21	37	29	24	21	28	24	20	27	23	20	27	23	20	19
9	35	27	22	19	34	27	22	18	26	21	18	25	21	18	25	21	18	17
10	33	25	20	17	32	25	20	17	24	20	17	23	19	17	23	19	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4058	4058	4058
5°	4048	4060	4064
10°	4040	4056	4062
15°	4021	4041	4044
20°	3995	4009	4002
25°	3961	3965	3944
30°	3920	3905	3858
35°	3866	3824	3739
40°	3809	3714	3611
45°	3738	3577	3447
50°	3650	3414	3385
55°	3545	3210	3265
60°	3404	3082	3082
65°	3235	2906	2869
70°	3028	2677	2650
75°	2818	2428	2403
80°	2509	2164	2164
85°	1775	1884	1884



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	121.7	3.5	2.2	0°	1285	1285	1285	1285	1285	
10°-20°	348.2	10.1	6.2	5°	1277	1278	1281	1283	1282	121
20°-30°	523.2	15.2	9.3	15°	1230	1231	1236	1238	1237	347
30°-40°	618.4	18.0	11.0	25°	1137	1139	1138	1134	1132	524
40°-50°	620.4	18.0	11.1	35°	1003	1003	992	976	970	628
50°-60°	541.0	15.7	9.7	45°	837	831	801	779	772	645
60°-70°	392.7	11.4	7.0	55°	644	629	583	591	593	575
70°-80°	215.2	6.3	3.8	65°	433	403	389	385	384	429
80°-90°	60.0	1.7	1.1	75°	231	198	199	198	197	244
90°-100°	0.0	0.0	0.0	85°	49	50	52	53	52	62
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	993.1	28.9	17.7							
0°-40°	1611.5	46.8	28.8							
0°-60°	2772.9	80.6	49.5							
0°-90°	3440.8	100.0	61.4							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3440.8	100.0	61.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1285	1285	1285	1285	1285
2.5°	1281	1282	1285	1286	1285
5°	1277	1278	1281	1283	1282
7.5°	1270	1271	1275	1276	1276
10°	1260	1261	1265	1267	1267
12.5°	1246	1247	1252	1254	1254
15°	1230	1231	1236	1238	1237
17.5°	1211	1212	1217	1217	1216
20°	1189	1190	1193	1193	1191
22.5°	1164	1166	1167	1165	1164
25°	1137	1139	1138	1134	1132
27.5°	1107	1108	1106	1100	1096
30°	1075	1076	1071	1062	1058
32.5°	1040	1040	1033	1020	1015
35°	1003	1003	992	976	970
37.5°	965	963	948	929	924
40°	924	921	901	881	876
42.5°	881	877	852	831	824
45°	837	831	801	779	772
47.5°	790	783	749	726	730
50°	743	733	695	682	689
52.5°	694	682	639	638	642
55°	644	629	583	591	593
57.5°	591	573	535	540	541
60°	539	517	488	489	488
62.5°	486	460	439	437	436
65°	433	403	389	385	384
67.5°	380	346	339	335	335
70°	328	290	290	288	287
72.5°	278	243	243	242	241
75°	231	198	199	198	197
77.5°	185	155	157	157	157
80°	138	115	119	119	119
82.5°	91	80	83	84	84
85°	49	50	52	53	52
87.5°	19	25	26	27	27
90°	0	0	0	0	0

(END OF REPORT)