

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: 223P132

Luminaire Tested: **2RDI-232FLS**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 223P132  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2RDI-232FLS  
Description: 2 X 4 RDI CENTER MOUNT SERIES LUMINAIRE WITH AN OPAQUE RIBBED LENS.  
Light Source: TWO - F032/35K - 2800 LUMENS EA. - 32 WATTS EA.  
Ballast/Driver: TRIAD B232IUNVHP-B

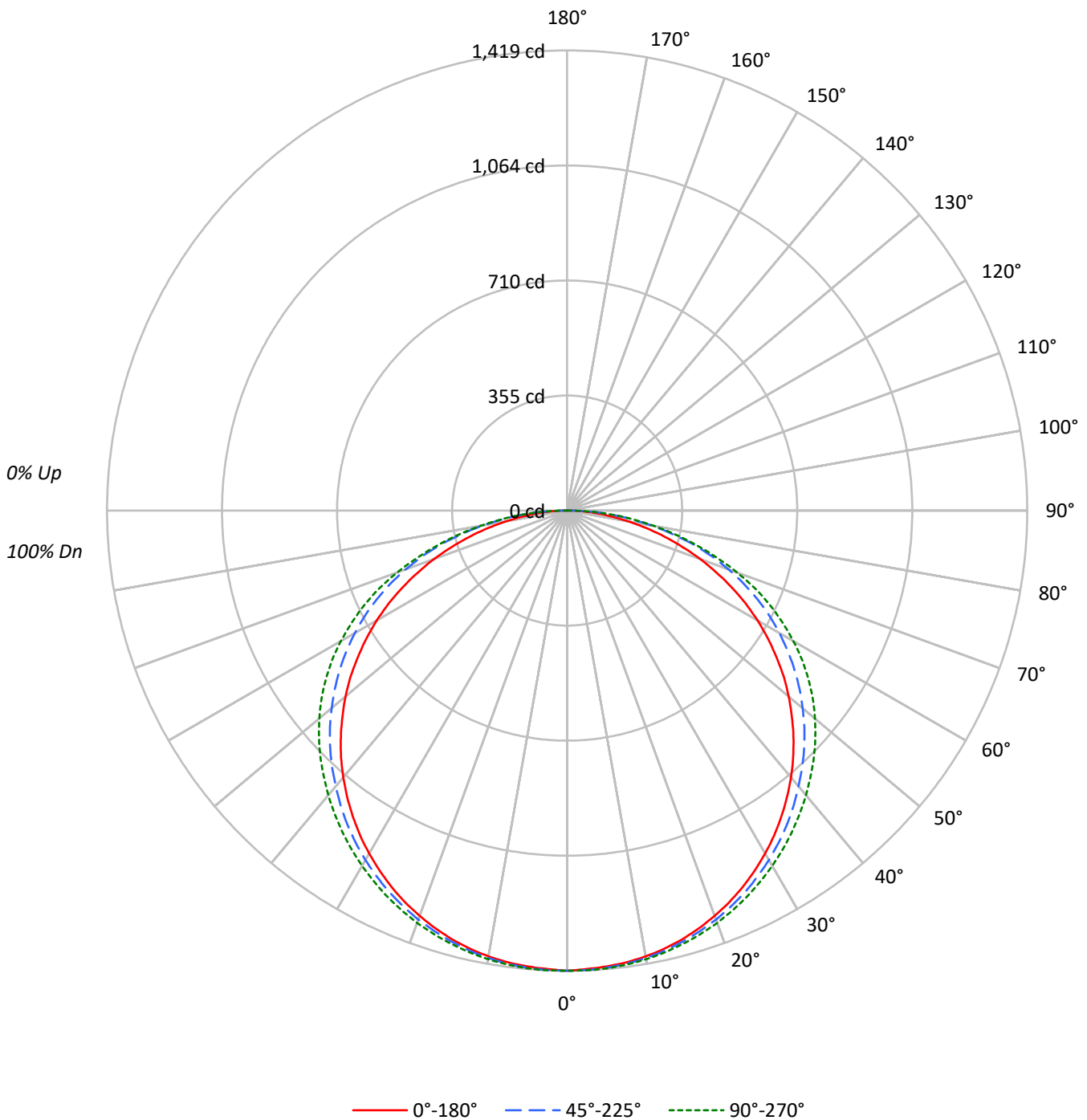
**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 4596.0 lumens  
Efficiency: 82.1%  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.33 / 1.44  
Luminous Opening: Rectangular (W 1.88' x L: 3.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
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	98	98	98	98	95	95	95	95	91	91	91		87	87	87		84	84	84	82
1	88	84	80	77	86	82	79	76	79	76	73		75	73	71		72	71	69	67
2	80	73	67	62	78	71	66	61	68	63	59		65	61	58		63	60	57	55
3	72	63	56	51	70	62	55	50	59	54	49		57	52	48		55	51	47	46
4	66	56	48	42	64	55	48	42	53	46	41		51	45	41		49	44	40	38
5	61	50	42	36	59	49	41	36	47	40	36		45	40	35		44	39	35	33
6	56	45	37	31	54	44	36	31	42	36	31		41	35	31		39	34	30	29
7	52	40	33	28	50	40	32	27	38	32	27		37	31	27		36	31	27	25
8	48	37	29	24	47	36	29	24	35	29	24		34	28	24		33	28	24	22
9	45	34	27	22	44	33	26	22	32	26	22		31	26	22		30	25	21	20
10	42	31	24	20	41	30	24	20	30	24	20		29	23	20		28	23	19	18

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

	0°	45°	90°
0°	2091	2091	2091
5°	2087	2093	2096
10°	2089	2096	2102
15°	2088	2099	2110
20°	2086	2104	2122
25°	2083	2110	2135
30°	2078	2117	2152
35°	2072	2126	2175
40°	2066	2135	2204
45°	2057	2155	2242
50°	2045	2173	2288
55°	2024	2199	2335
60°	1998	2228	2375
65°	1953	2259	2409
70°	1878	2279	2404
75°	1771	2289	2363
80°	1629	2240	2300
85°	1488	2215	2282



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	134.6	2.9	2.4	0°	1419	1419	1419	1419	1419	
10°-20°	388.7	8.5	6.9	5°	1411	1411	1415	1417	1417	134
20°-30°	598.5	13.0	10.7	15°	1369	1371	1376	1382	1383	386
30°-40°	739.7	16.1	13.2	25°	1281	1287	1298	1308	1313	590
40°-50°	797.3	17.3	14.2	35°	1152	1164	1182	1201	1209	721
50°-60°	762.7	16.6	13.6	45°	987	1005	1034	1063	1076	761
60°-70°	629.7	13.7	11.2	55°	788	816	856	895	909	704
70°-80°	405.6	8.8	7.2	65°	560	598	648	680	691	553
80°-90°	137.9	3.0	2.5	75°	311	365	402	412	415	329
90°-100°	1.4	0.0	0.0	85°	88	120	131	134	135	93
100°-110°	0.0	0.0	0.0	90°	7	10	11	11	11	8
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1121.7	24.4	20.0	165°	0	0	0	0	0	0
0°-40°	1861.5	40.5	33.2	175°	0	0	0	0	0	0
0°-60°	3421.4	74.4	61.1	180°	0	0	0	0	0	0
0°-90°	4594.6	100.0	82.0							
90°-120°	1.4	0.0	0.0							
90°-150°	1.4	0.0	0.0							
90°-180°	1.0	0.0	0.0							
0°-180°	4596.0	100.0	82.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1419	1419	1419	1419	1419
2.5°	1415	1415	1418	1420	1419
5°	1411	1411	1415	1417	1417
7.5°	1405	1406	1409	1411	1412
10°	1396	1397	1401	1404	1405
12.5°	1384	1385	1390	1394	1395
15°	1369	1371	1376	1382	1383
17.5°	1351	1354	1360	1367	1369
20°	1330	1334	1342	1349	1353
22.5°	1307	1312	1321	1330	1334
25°	1281	1287	1298	1308	1313
27.5°	1252	1260	1272	1285	1290
30°	1221	1230	1244	1259	1265
32.5°	1188	1198	1214	1231	1238
35°	1152	1164	1182	1201	1209
37.5°	1114	1127	1147	1169	1178
40°	1074	1089	1110	1135	1146
42.5°	1032	1048	1073	1099	1111
45°	987	1005	1034	1063	1076
47.5°	940	960	992	1024	1038
50°	892	914	948	983	998
52.5°	842	866	903	940	955
55°	788	816	856	895	909
57.5°	734	764	807	846	860
60°	678	709	756	793	806
62.5°	620	654	703	738	749
65°	560	598	648	680	691
67.5°	498	540	590	619	627
70°	436	482	529	554	558
72.5°	373	424	467	480	485
75°	311	365	402	412	415
77.5°	250	305	330	341	343
80°	192	243	264	270	271
82.5°	137	181	196	201	202
85°	88	120	131	134	135
87.5°	43	62	69	70	70
90°	7	10	11	11	11
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)