

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: 223P134

Luminaire Tested: **2RDI-214FLS**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 223P134
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDI-214FLS
Description: 2 X 2 RDI CENTER MOUNT SERIES LUMINAIRE WITH AN OPAQUE RIBBED LENS.
Light Source: TWO - F14T5/835 - 1200 LUMENS EA. - 14 WATTS EA.
Ballast/Driver: TRIAD B228PUNV-C

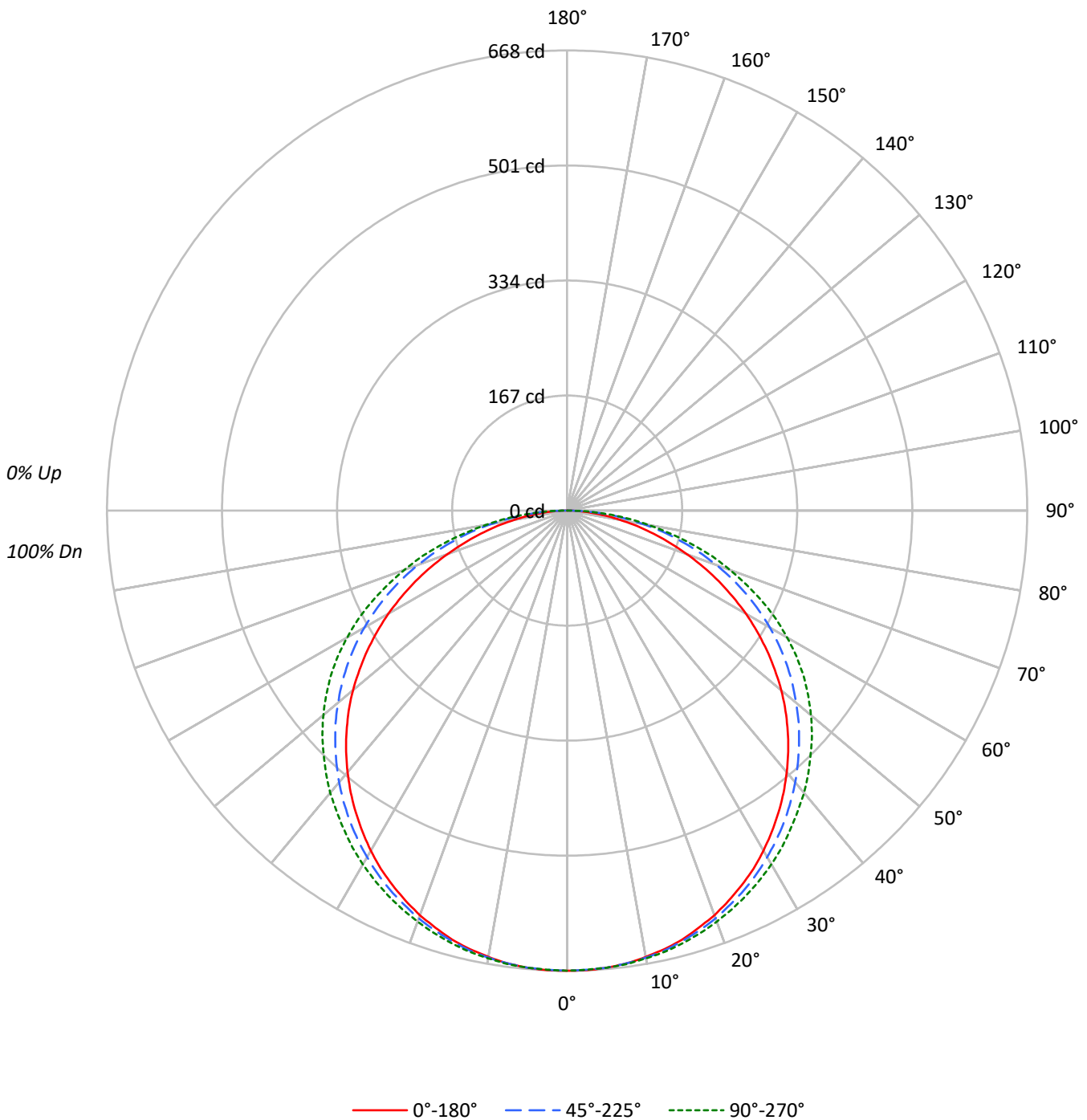
Summary

Lumens per Lamp: 1200 (2 lamps)
Luminaire Lumens: 2093.2 lumens
Efficiency: 87.2%
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.86' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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	104	104	104	104	101	101	101	101	97	97	97	93	93	93	89	89	89	87
1	94	90	86	82	92	88	84	81	84	81	78	81	78	76	77	75	74	72
2	85	78	71	66	83	76	70	65	73	68	64	70	66	62	67	64	61	59
3	77	68	60	54	75	66	59	54	64	58	53	61	56	52	59	55	51	49
4	71	60	52	46	69	59	51	45	56	50	45	54	49	44	52	48	44	42
5	65	53	45	39	63	52	45	39	50	44	38	49	43	38	47	42	38	36
6	60	48	40	34	58	47	39	34	45	39	34	44	38	33	42	37	33	31
7	55	43	35	30	54	43	35	30	41	34	30	40	34	29	39	33	29	27
8	52	39	32	27	50	39	32	26	38	31	26	37	31	26	35	30	26	24
9	48	36	29	24	47	36	29	24	35	28	24	34	28	23	33	27	23	22
10	45	33	26	22	44	33	26	22	32	26	21	31	25	21	30	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2034	2034	2034
5°	2036	2036	2036
10°	2035	2038	2041
15°	2033	2040	2049
20°	2025	2041	2058
25°	2016	2043	2070
30°	2004	2043	2085
35°	1989	2044	2100
40°	1972	2047	2127
45°	1951	2050	2153
50°	1923	2056	2189
55°	1879	2065	2224
60°	1827	2071	2247
65°	1751	2068	2255
70°	1647	2048	2235
75°	1529	2012	2188
80°	1368	1946	2104
85°	1188	1887	2026



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	63.4	3.0	2.6	0°	668	668	668	668	668	
10°-20°	182.7	8.7	7.6	5°	666	666	666	666	666	63
20°-30°	280.3	13.4	11.7	15°	645	645	647	649	650	182
30°-40°	344.2	16.4	14.3	25°	600	602	608	614	616	277
40°-50°	367.4	17.6	15.3	35°	535	539	550	561	565	335
50°-60°	346.1	16.5	14.4	45°	453	459	476	493	500	349
60°-70°	278.5	13.3	11.6	55°	354	364	389	411	419	316
70°-80°	173.9	8.3	7.2	65°	243	256	287	307	313	240
80°-90°	56.2	2.7	2.3	75°	130	147	171	184	186	138
90°-100°	0.4	0.0	0.0	85°	34	43	54	57	58	37
100°-110°	0.0	0.0	0.0	90°	2	3	3	3	3	3
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°	526.4	25.1	21.9	165°	0	0	0	0	0	0
0°-40°	870.6	41.6	36.3	175°	0	0	0	0	0	0
0°-60°	1584.1	75.7	66.0	180°	0	0	0	0	0	0
0°-90°	2092.8	100.0	87.2							
90°-120°	0.4	0.0	0.0							
90°-150°	0.4	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2093.2	100.0	87.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668	668	668	668	668
2.5°	668	667	667	667	667
5°	666	666	666	666	666
7.5°	663	663	663	664	664
10°	658	658	659	660	660
12.5°	652	652	654	655	656
15°	645	645	647	649	650
17.5°	635	636	639	642	643
20°	625	626	630	634	635
22.5°	613	614	619	624	626
25°	600	602	608	614	616
27.5°	586	588	595	602	605
30°	570	573	581	589	593
32.5°	553	556	566	576	580
35°	535	539	550	561	565
37.5°	516	520	533	545	550
40°	496	501	515	529	535
42.5°	475	480	496	511	518
45°	453	459	476	493	500
47.5°	430	436	456	474	482
50°	406	413	434	455	462
52.5°	380	389	412	433	441
55°	354	364	389	411	419
57.5°	327	338	365	387	395
60°	300	311	340	362	369
62.5°	271	284	314	335	342
65°	243	256	287	307	313
67.5°	214	229	259	277	282
70°	185	201	230	245	251
72.5°	157	174	201	216	221
75°	130	147	171	184	186
77.5°	104	119	142	150	153
80°	78	93	111	119	120
82.5°	55	68	82	87	89
85°	34	43	54	57	58
87.5°	17	21	27	29	29
90°	2	3	3	3	3
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)