

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: 223P133

Luminaire Tested: **2RDI-217FLS**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 223P133
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDI-217FLS
Description: 2 X 2 RDI CENTER MOUNT SERIES LUMINAIRE WITH AN OPAQUE RIBBED LENS.
Light Source: TWO - FO17/35K - 1300 LUMENS EA. - 17 WATTS EA.
Ballast/Driver: SYLVANIA QTP2X32T8/UNV ISN-SC

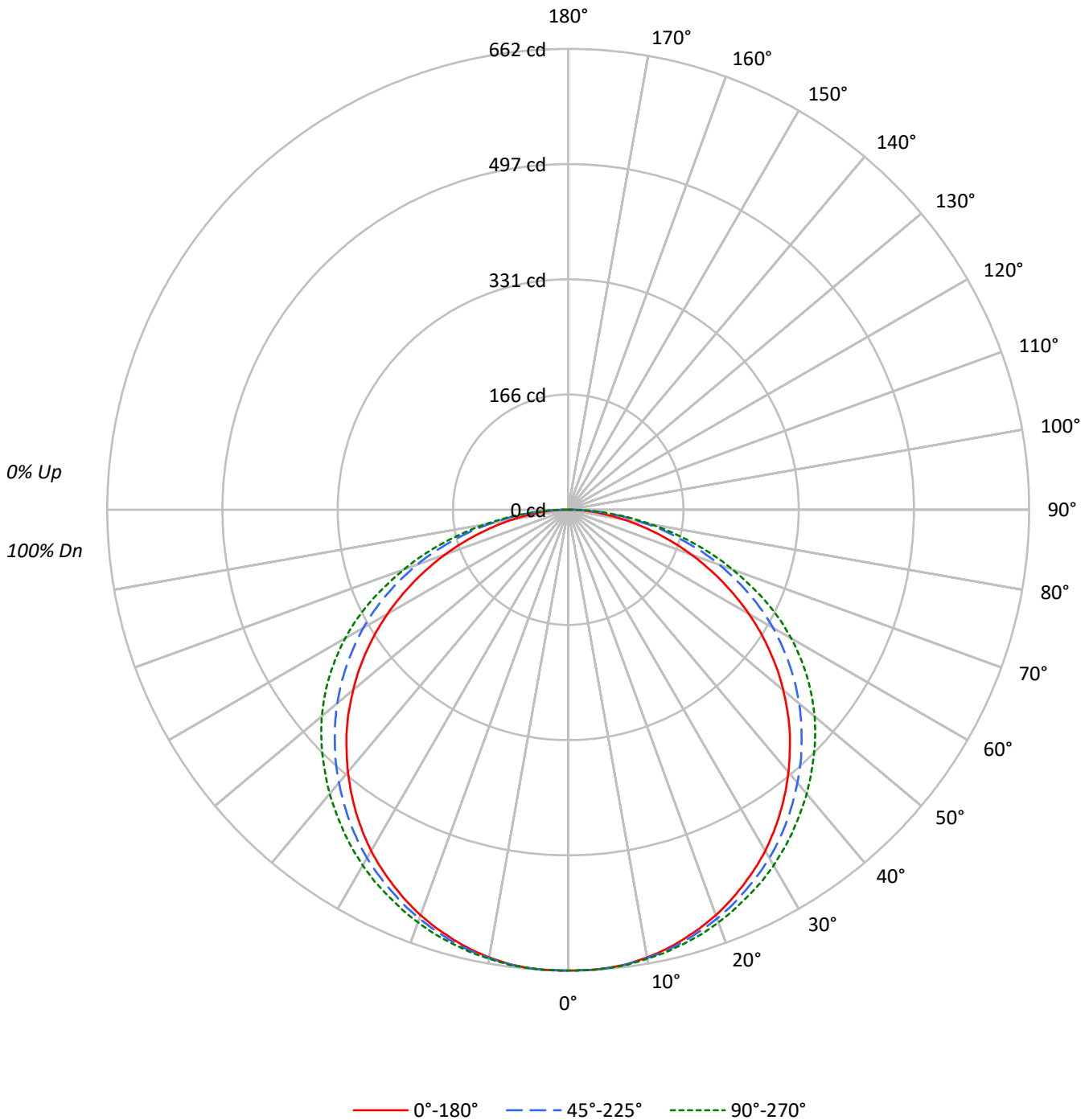
Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2089.2 lumens
Efficiency: 80.4%
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.85' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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	96	96	96	96	93	93	93	93	89	89	89		85	85	85		82	82	82	80
1	87	83	79	76	85	81	77	74	77	75	72		74	72	70		71	69	68	66
2	78	71	66	61	76	70	65	60	67	63	59		64	61	57		62	59	56	54
3	71	62	56	50	69	61	55	50	59	53	49		56	52	48		54	50	47	45
4	65	55	48	42	63	54	47	42	52	46	41		50	45	41		48	44	40	38
5	60	49	41	36	58	48	41	36	46	40	35		45	39	35		43	38	35	33
6	55	44	37	31	53	43	36	31	42	35	31		40	35	30		39	34	30	29
7	51	40	33	27	50	39	32	27	38	32	27		37	31	27		36	31	27	25
8	47	36	29	24	46	36	29	24	35	28	24		34	28	24		33	28	24	22
9	44	33	26	22	43	33	26	22	32	26	22		31	25	22		30	25	21	20
10	41	31	24	20	40	30	24	20	29	24	20		29	23	20		28	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2027	2027	2027
5°	2032	2032	2032
10°	2030	2034	2037
15°	2026	2035	2045
20°	2020	2037	2056
25°	2010	2037	2068
30°	2001	2044	2086
35°	1985	2045	2105
40°	1967	2047	2131
45°	1949	2053	2161
50°	1920	2063	2201
55°	1885	2071	2237
60°	1837	2082	2266
65°	1768	2079	2275
70°	1683	2068	2247
75°	1562	2023	2212
80°	1428	1975	2134
85°	1265	1897	2038



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	62.9	3.0	2.4	0°	662	662	662	662	662	
10°-20°	181.4	8.7	7.0	5°	661	661	661	660	661	63
20°-30°	278.4	13.3	10.7	15°	639	640	642	645	645	180
30°-40°	342.5	16.4	13.2	25°	595	598	603	610	612	274
40°-50°	366.2	17.5	14.1	35°	531	536	547	559	563	332
50°-60°	345.9	16.6	13.3	45°	450	458	474	492	499	347
60°-70°	279.5	13.4	10.8	55°	353	365	388	410	419	315
70°-80°	175.2	8.4	6.7	65°	244	259	287	307	314	241
80°-90°	56.9	2.7	2.2	75°	132	150	171	183	187	140
90°-100°	0.4	0.0	0.0	85°	36	45	54	57	58	38
100°-110°	0.0	0.0	0.0	90°	3	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°	522.6	25.0	20.1	165°	0	0	0	0	0	0
0°-40°	865.1	41.4	33.3	175°	0	0	0	0	0	0
0°-60°	1577.1	75.5	60.7	180°	0	0	0	0	0	0
0°-90°	2088.8	100.0	80.3							
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°	2089.2	100.0	80.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	662	662	662	662	662
2.5°	662	662	662	662	662
5°	661	661	661	660	661
7.5°	658	658	658	658	659
10°	653	653	654	655	655
12.5°	647	647	649	650	651
15°	639	640	642	645	645
17.5°	630	631	634	638	639
20°	620	621	625	629	631
22.5°	608	610	615	620	622
25°	595	598	603	610	612
27.5°	581	584	591	599	602
30°	566	569	578	586	590
32.5°	549	553	563	573	577
35°	531	536	547	559	563
37.5°	512	518	530	543	548
40°	492	499	512	527	533
42.5°	471	478	494	510	516
45°	450	458	474	492	499
47.5°	427	436	454	473	481
50°	403	413	433	454	462
52.5°	379	389	411	432	441
55°	353	365	388	410	419
57.5°	327	339	364	387	395
60°	300	313	340	362	370
62.5°	272	286	314	335	343
65°	244	259	287	307	314
67.5°	216	232	259	277	282
70°	188	205	231	245	251
72.5°	160	177	202	215	220
75°	132	150	171	183	187
77.5°	106	122	142	151	154
80°	81	96	112	119	121
82.5°	56	70	83	88	89
85°	36	45	54	57	58
87.5°	18	22	27	28	29
90°	3	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)