

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: P30261

Luminaire Tested: **2RDIA-317RP-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P30261  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2RDIA-317RP-UNV-EB81  
Description: METALUX RDI OVATION SERIES WITH AIR RETURN SLOTS, 2'x 2' RECESSED  
DIRECT/INDIRECT, WITH CENTER MOUNT ROUND PERFORATED WHITE STEEL BASKET  
AND ACRYLIC OVERLAY  
Light Source: THREE T8 LINEAR FLUORESCENT LAMPS, F17T8 17W - 1325 LUMENS EA  
Ballast/Driver: -

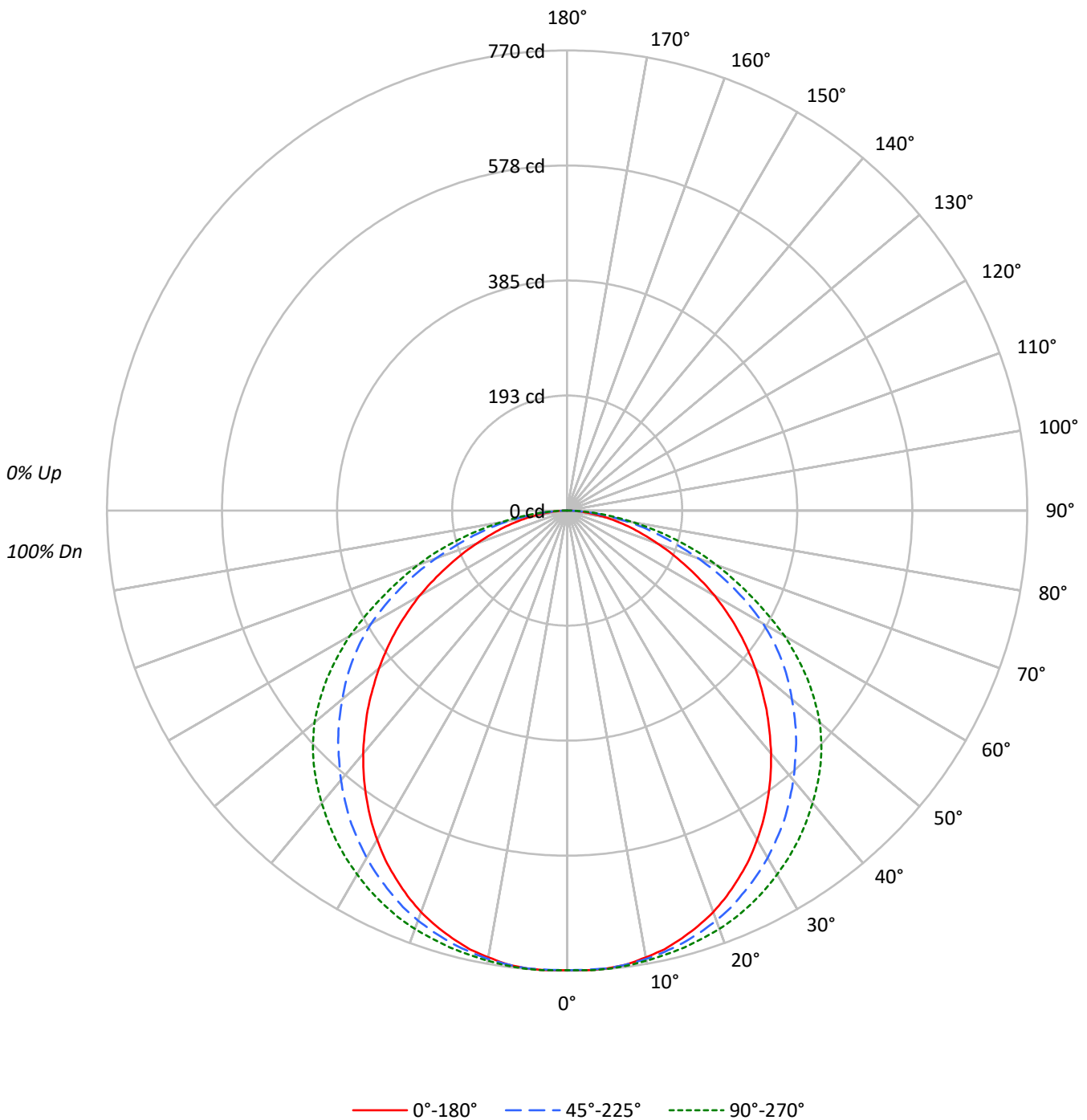
**Summary**

Lumens per Lamp: 1325 (3 lamps)  
Luminaire Lumens: 2307.0 lumens  
Efficiency: 58.0%  
Efficacy: 48.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.42  
Luminous Opening: Rectangular (W 1.75' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47.2  
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	69	69	69	69	67	67	67	67	64	64	64	62	62	62	59	59	59	58
1	63	60	58	55	61	59	57	54	56	54	53	54	53	51	52	51	50	48
2	57	52	48	45	56	51	47	44	49	46	43	47	45	42	45	43	41	40
3	52	46	41	37	51	45	40	37	43	39	36	42	38	36	40	37	35	34
4	48	40	35	31	46	40	35	31	38	34	31	37	33	30	36	32	30	29
5	44	36	31	27	42	35	30	27	34	30	26	33	29	26	32	29	26	25
6	40	32	27	23	39	32	27	23	31	26	23	30	26	23	29	25	23	21
7	37	29	24	21	36	29	24	21	28	24	20	27	23	20	26	23	20	19
8	35	27	22	18	34	26	22	18	26	21	18	25	21	18	24	21	18	17
9	32	25	20	16	32	24	20	16	24	19	16	23	19	16	22	19	16	15
10	30	23	18	15	30	22	18	15	22	18	15	21	17	15	21	17	15	14

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

	0°	45°	90°
0°	2468	2468	2468
5°	2477	2477	2480
10°	2473	2483	2493
15°	2462	2488	2515
20°	2442	2493	2544
25°	2404	2489	2574
30°	2357	2486	2605
35°	2296	2480	2640
40°	2224	2467	2677
45°	2142	2460	2723
50°	2052	2451	2756
55°	1953	2456	2747
60°	1829	2433	2696
65°	1671	2339	2582
70°	1511	2186	2496
75°	1364	2009	2331
80°	1201	1811	2051
85°	994	1473	1694



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	73.2	3.2	1.8	0°	769	769	769	769	769	
10°-20°	211.6	9.2	5.3	5°	769	769	769	769	770	73
20°-30°	324.2	14.1	8.2	15°	741	743	749	755	757	209
30°-40°	395.1	17.1	9.9	25°	679	686	703	721	727	313
40°-50°	415.9	18.0	10.5	35°	586	600	633	664	674	366
50°-60°	383.8	16.6	9.7	45°	472	494	542	585	600	364
60°-70°	292.1	12.7	7.3	55°	349	381	439	482	491	312
70°-80°	166.4	7.2	4.2	65°	220	259	308	334	340	219
80°-90°	44.8	1.9	1.1	75°	110	134	162	183	188	117
90°-100°	0.0	0.0	0.0	85°	27	32	40	44	46	32
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°	609.0	26.4	15.3							
0°-40°	1004.1	43.5	25.3							
0°-60°	1803.8	78.2	45.4							
0°-90°	2307.0	100.0	58.0							
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°	2307.0	100.0	58.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	769	769	769	769	769
2.5°	770	770	769	770	770
5°	769	769	769	769	770
7.5°	766	766	766	768	768
10°	759	760	762	765	765
12.5°	752	753	756	760	761
15°	741	743	749	755	757
17.5°	729	732	740	749	751
20°	715	719	730	741	745
22.5°	698	703	718	732	737
25°	679	686	703	721	727
27.5°	659	667	688	709	716
30°	636	646	671	695	703
32.5°	612	624	652	680	689
35°	586	600	633	664	674
37.5°	559	575	611	646	657
40°	531	549	589	626	639
42.5°	501	522	565	606	620
45°	472	494	542	585	600
47.5°	441	466	517	563	577
50°	411	438	491	539	552
52.5°	380	410	466	512	522
55°	349	381	439	482	491
57.5°	317	351	410	448	456
60°	285	320	379	411	420
62.5°	252	290	344	373	380
65°	220	259	308	334	340
67.5°	190	228	271	292	302
70°	161	198	233	256	266
72.5°	134	167	195	220	228
75°	110	134	162	183	188
77.5°	87	104	130	145	149
80°	65	76	98	109	111
82.5°	45	52	67	75	77
85°	27	32	40	44	46
87.5°	13	15	17	18	19
90°	0	0	0	0	0

(END OF REPORT)