

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P232270

Luminaire Tested: **22RDI-30-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-10-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RDI-30-UNV-L840-CD1-U  
Description: METALUX 2X2 OVATION LED TROFFER  
STANDARD VERISON  
Light Source: (196) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

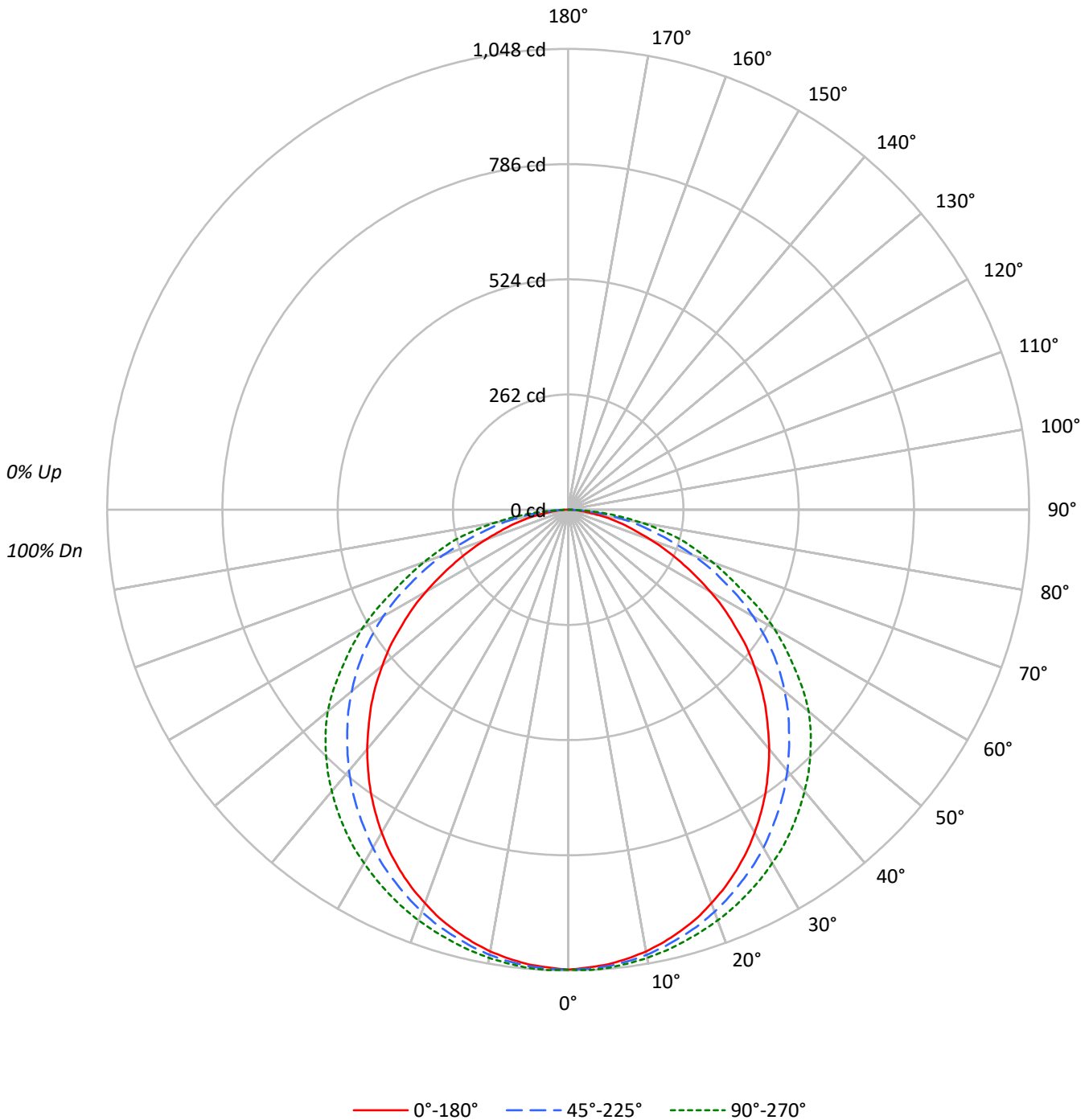
Lumens per Lamp: N/A  
Luminaire Lumens: 3031.9 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.1  
Input Voltage (V): 120  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	2815	2815	2815
5°	2804	2815	2826
10°	2787	2809	2828
15°	2761	2797	2833
20°	2726	2786	2846
25°	2687	2770	2862
30°	2635	2759	2884
35°	2572	2740	2911
40°	2498	2722	2937
45°	2413	2702	2965
50°	2307	2688	2989
55°	2172	2665	2946
60°	2013	2616	2912
65°	1802	2509	2789
70°	1566	2376	2746
75°	1352	2163	2776
80°	1100	2015	2603
85°	803	1606	2161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.0	3.3
10°-20°	283.5	9.3
20°-30°	430.7	14.2
30°-40°	522.0	17.2
40°-50°	546.8	18.0
50°-60°	498.1	16.4
60°-70°	375.8	12.4
70°-80°	217.0	7.2
80°-90°	59.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	813.2	26.8
0°-40°	1335.2	44.0
0°-60°	2380.1	78.5
0°-90°	3031.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1038	1039	1042	1045	1046	98
15°	991	995	1004	1013	1017	280
25°	905	914	933	956	964	417
35°	783	799	834	870	886	489
45°	634	658	710	761	779	488
55°	463	501	568	616	628	415
65°	283	330	394	429	438	281
75°	130	163	208	249	267	139
85°	26	35	52	64	70	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1046	1046	1046	1046	1046
2.5°	1042	1043	1045	1047	1048
5°	1038	1039	1042	1045	1046
7.5°	1030	1032	1036	1040	1041
10°	1020	1022	1028	1033	1035
12.5°	1007	1010	1017	1024	1027
15°	991	995	1004	1013	1017
17.5°	974	978	990	1002	1006
20°	952	958	973	988	994
22.5°	930	936	954	973	980
25°	905	914	933	956	964
27.5°	878	888	912	937	947
30°	848	860	888	917	928
32.5°	816	830	861	895	909
35°	783	799	834	870	886
37.5°	747	765	806	845	862
40°	711	730	775	819	836
42.5°	672	695	743	791	809
45°	634	658	710	761	779
47.5°	594	620	678	729	748
50°	551	582	642	695	714
52.5°	511	543	607	657	673
55°	463	501	568	616	628
57.5°	421	459	527	570	585
60°	374	418	486	526	541
62.5°	326	374	442	479	492
65°	283	330	394	429	438
67.5°	241	289	350	382	392
70°	199	245	302	333	349
72.5°	161	205	253	291	306
75°	130	163	208	249	267
77.5°	100	126	169	208	218
80°	71	92	130	161	168
82.5°	45	63	91	111	120
85°	26	35	52	64	70
87.5°	11	15	18	21	22
90°	0	0	0	0	0

(END OF REPORT)