

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: P232263

Luminaire Tested: **14RDI-25-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-212-2-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RDI-25-UNV-L850-CD1-U  
Description: METALUX 1X4 RDI LED TROFFER  
Light Source: (196)5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

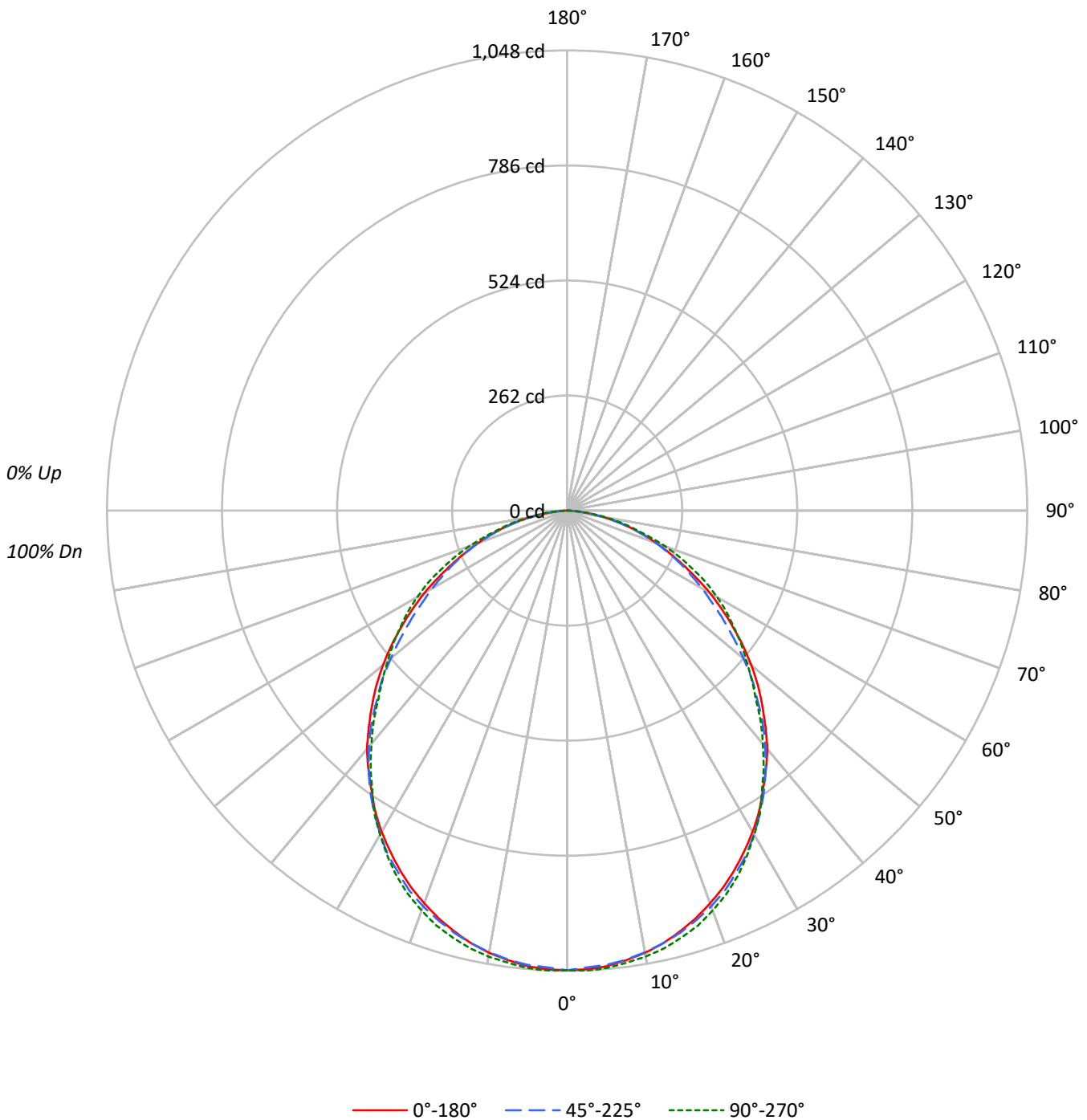
Lumens per Lamp: N/A  
Luminaire Lumens: 2645.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.3  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.1  
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	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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

	0°	45°	90°
0°	2818	2818	2818
5°	2813	2805	2824
10°	2794	2790	2818
15°	2764	2772	2804
20°	2725	2746	2775
25°	2680	2702	2727
30°	2625	2643	2648
35°	2553	2567	2543
40°	2491	2466	2435
45°	2391	2336	2314
50°	2292	2195	2231
55°	2161	2039	2175
60°	2021	1912	2122
65°	1848	1803	2014
70°	1704	1681	1864
75°	1531	1517	1622
80°	1275	1254	1365
85°	713	936	982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	3.7
10°-20°	281.5	10.6
20°-30°	419.4	15.9
30°-40°	487.3	18.4
40°-50°	477.5	18.1
50°-60°	404.2	15.3
60°-70°	288.4	10.9
70°-80°	151.7	5.7
80°-90°	36.1	1.4
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°	799.8	30.2
0°-40°	1287.1	48.7
0°-60°	2168.8	82.0
0°-90°	2645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1041	1041	1038	1044	1046	99
15°	992	992	995	1004	1007	280
25°	903	906	910	918	918	415
35°	777	783	781	778	774	487
45°	628	633	614	610	608	485
55°	461	456	435	454	464	412
65°	290	269	283	309	316	289
75°	147	116	146	154	156	156
85°	23	27	30	32	32	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	1045.6	1045.6	1041.3	1047.1	1048.5
5°	1041.3	1041.3	1038.4	1044.2	1045.6
7.5°	1032.6	1032.6	1031.2	1038.4	1038.4
10°	1022.5	1022.5	1021.1	1029.7	1031.2
12.5°	1009.5	1009.5	1009.5	1019.6	1021.1
15°	992.2	992.2	995.1	1003.7	1006.6
17.5°	973.4	976.3	977.7	987.9	990.7
20°	951.7	954.6	959.0	970.5	969.1
22.5°	928.6	931.5	937.3	947.4	946.0
25°	902.6	905.5	909.9	918.5	918.5
27.5°	873.8	878.1	883.9	888.2	886.8
30°	844.9	847.8	850.7	853.5	852.1
32.5°	813.1	817.4	817.4	817.4	817.4
35°	777.0	782.8	781.3	778.4	774.1
37.5°	743.8	748.1	742.3	738.0	735.1
40°	709.1	710.6	701.9	694.7	693.2
42.5°	668.7	673.0	660.0	651.3	652.8
45°	628.2	632.6	613.8	609.5	608.0
47.5°	589.2	592.1	571.9	566.1	570.5
50°	547.4	545.9	524.3	525.7	532.9
52.5°	504.0	501.1	478.0	489.6	499.7
55°	460.7	456.4	434.7	453.5	463.6
57.5°	417.4	411.6	391.4	418.8	430.4
60°	375.5	361.1	355.3	382.7	394.3
62.5°	330.7	314.8	317.7	346.6	358.2
65°	290.3	268.6	283.1	309.1	316.3
67.5°	251.3	223.9	248.4	271.5	277.3
70°	216.6	180.5	213.7	232.5	236.9
72.5°	182.0	144.4	179.1	192.1	193.5
75°	147.3	115.5	145.9	154.5	156.0
77.5°	114.1	91.0	112.6	121.3	124.2
80°	82.3	66.4	80.9	88.1	88.1
82.5°	50.5	44.8	53.4	57.8	60.7
85°	23.1	27.4	30.3	31.8	31.8
87.5°	7.2	10.1	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)