

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: P731922

Luminaire Tested: **14CZ2-44-RDP-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-RDP-B2750-W2D-3000K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

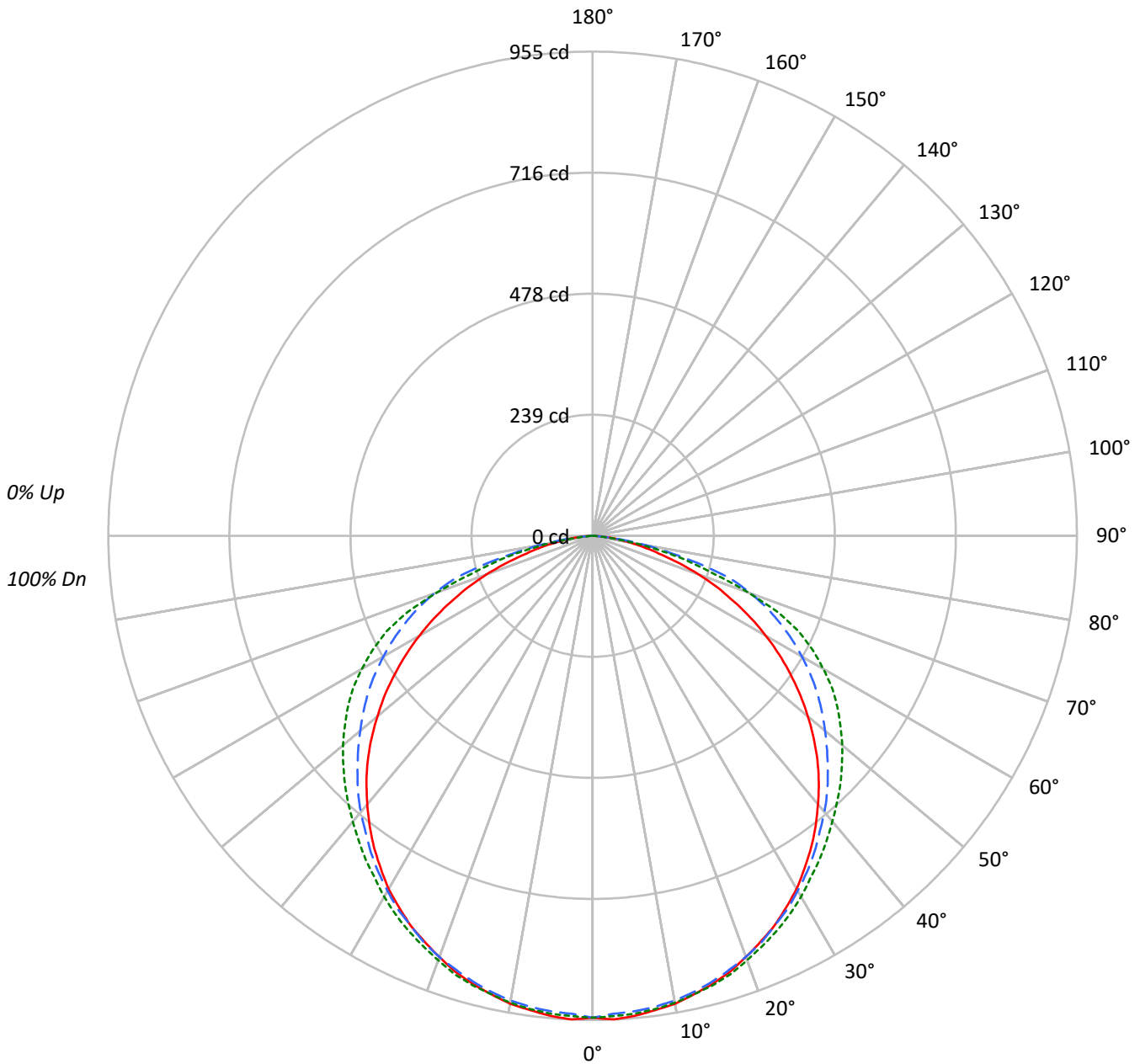
Lumens per Lamp: N/A  
Luminaire Lumens: 2838.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	2683	2683	2683
5°	2693	2668	2681
10°	2686	2668	2680
15°	2674	2661	2681
20°	2655	2655	2676
25°	2643	2643	2677
30°	2622	2636	2680
35°	2589	2627	2688
40°	2547	2621	2711
45°	2503	2618	2759
50°	2433	2627	2822
55°	2344	2661	2900
60°	2226	2689	2965
65°	2057	2722	3004
70°	1829	2743	2687
75°	1474	2465	2151
80°	1152	1731	1404
85°	790	502	359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	3.2
10°-20°	258.1	9.1
20°-30°	393.0	13.8
30°-40°	478.7	16.9
40°-50°	507.9	17.9
50°-60°	479.3	16.9
60°-70°	387.0	13.6
70°-80°	209.9	7.4
80°-90°	34.0	1.2
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°	741.1	26.1
0°-40°	1219.9	43.0
0°-60°	2207.1	77.8
0°-90°	2838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	950	948	942	948	946	90
15°	915	913	911	917	917	258
25°	849	846	849	857	860	391
35°	751	756	762	778	780	470
45°	627	636	656	680	691	483
55°	476	496	541	576	589	425
65°	308	346	408	441	450	305
75°	135	197	226	204	197	148
85°	24	27	16	13	11	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	950.5	950.5	950.5	950.5	950.5
2.5°	954.9	950.5	943.7	950.5	948.4
5°	950.5	948.4	941.6	948.4	946.2
7.5°	943.7	943.7	937.2	941.6	941.6
10°	937.2	935.0	930.7	937.2	935.0
12.5°	926.1	923.9	921.7	928.3	926.1
15°	915.0	912.8	910.6	917.4	917.4
17.5°	901.6	899.5	897.3	906.3	906.3
20°	884.0	884.0	884.0	893.0	890.8
22.5°	866.3	866.3	868.5	877.5	875.3
25°	848.7	846.5	848.7	857.4	859.5
27.5°	826.4	828.6	830.8	839.7	841.9
30°	804.4	806.6	808.8	819.9	822.1
32.5°	777.8	782.1	786.5	799.8	799.8
35°	751.2	755.5	762.3	777.8	780.0
37.5°	722.4	726.7	735.7	753.4	757.7
40°	691.2	698.0	711.3	728.9	735.7
42.5°	660.2	669.2	684.7	704.5	713.4
45°	627.1	635.8	655.9	680.3	691.2
47.5°	591.5	602.6	627.1	658.0	667.0
50°	554.0	569.5	598.3	631.4	642.6
52.5°	516.3	533.9	569.5	604.8	615.9
55°	476.3	496.2	540.7	576.0	589.3
57.5°	436.4	458.7	509.5	547.2	560.5
60°	394.3	420.9	476.3	514.1	525.2
62.5°	352.2	383.2	443.2	480.7	489.7
65°	308.0	345.7	407.6	441.0	449.7
67.5°	265.9	310.1	372.3	396.5	396.5
70°	221.6	270.2	332.4	338.9	325.6
72.5°	177.3	232.7	288.1	263.7	252.6
75°	135.2	197.2	226.0	204.0	197.2
77.5°	101.8	159.4	159.4	146.1	141.8
80°	70.9	121.9	106.5	93.2	86.4
82.5°	46.4	68.7	55.4	44.3	37.7
85°	24.4	26.6	15.5	13.3	11.1
87.5°	9.0	4.3	2.2	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)