

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: P731924

Luminaire Tested: **14CZ2-44-RDP-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731924  
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-4000K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

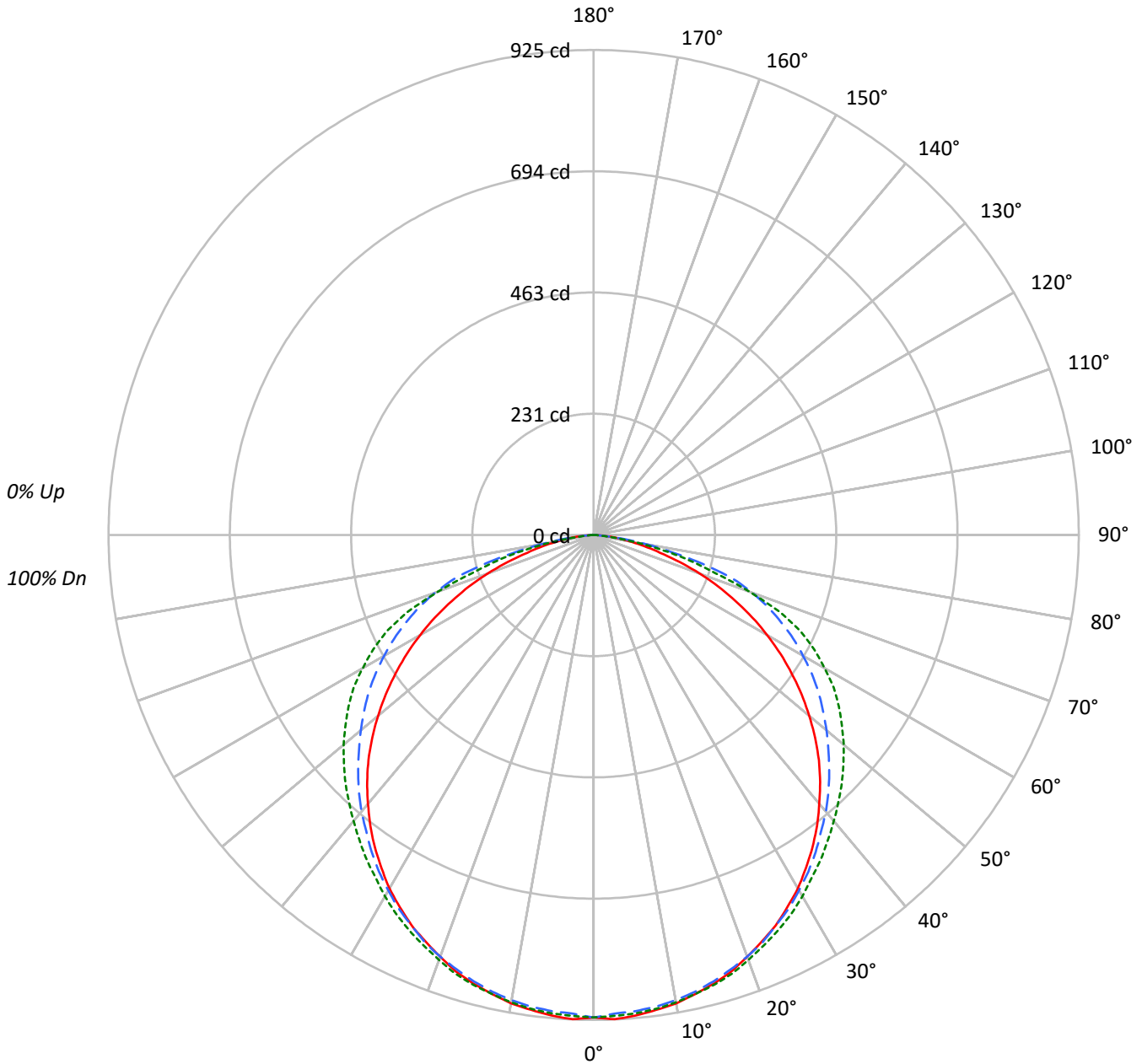
Lumens per Lamp: N/A  
Luminaire Lumens: 2748.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P731924

CATALOG NUMBER: 14CZ2-44-RDP-B2750-W2D-4000K

### 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°	2598	2598	2598
5°	2608	2583	2596
10°	2601	2583	2595
15°	2589	2577	2596
20°	2571	2571	2591
25°	2559	2559	2592
30°	2539	2552	2594
35°	2507	2543	2602
40°	2466	2538	2625
45°	2424	2535	2672
50°	2356	2544	2732
55°	2270	2577	2808
60°	2155	2604	2871
65°	1992	2636	2909
70°	1771	2657	2602
75°	1429	2386	2082
80°	1115	1676	1359
85°	768	486	350



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.1	3.2
10°-20°	249.9	9.1
20°-30°	380.6	13.8
30°-40°	463.6	16.9
40°-50°	491.8	17.9
50°-60°	464.1	16.9
60°-70°	374.7	13.6
70°-80°	203.3	7.4
80°-90°	32.9	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°	717.6	26.1
0°-40°	1181.2	43.0
0°-60°	2137.1	77.8
0°-90°	2748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	920	918	912	918	916	87
15°	886	884	882	888	888	250
25°	822	820	822	830	832	378
35°	727	732	738	753	755	455
45°	607	616	635	659	669	468
55°	461	480	524	558	571	412
65°	298	335	395	427	436	295
75°	131	191	219	198	191	143
85°	24	26	15	13	11	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	920.4	920.4	920.4	920.4	920.4
2.5°	924.6	920.4	913.8	920.4	918.3
5°	920.4	918.3	911.7	918.3	916.2
7.5°	913.8	913.8	907.5	911.7	911.7
10°	907.5	905.4	901.2	907.5	905.4
12.5°	896.7	894.6	892.5	898.8	896.7
15°	885.9	883.8	881.7	888.3	888.3
17.5°	873.0	870.9	868.8	877.5	877.5
20°	856.0	856.0	856.0	864.6	862.5
22.5°	838.9	838.9	841.0	849.6	847.5
25°	821.8	819.7	821.8	830.2	832.3
27.5°	800.2	802.3	804.4	813.1	815.2
30°	778.9	781.0	783.1	793.9	796.0
32.5°	753.1	757.3	761.6	774.4	774.4
35°	727.4	731.6	738.1	753.1	755.2
37.5°	699.5	703.7	712.4	729.5	733.7
40°	669.3	675.8	688.7	705.8	712.4
42.5°	639.3	647.9	662.9	682.1	690.8
45°	607.2	615.6	635.1	658.7	669.3
47.5°	572.7	583.5	607.2	637.2	645.8
50°	536.5	551.4	579.3	611.4	622.2
52.5°	499.9	517.0	551.4	585.6	596.4
55°	461.2	480.4	523.6	557.8	570.6
57.5°	422.6	444.2	493.3	529.9	542.8
60°	381.8	407.6	461.2	497.8	508.6
62.5°	341.1	371.0	429.2	465.5	474.1
65°	298.2	334.8	394.7	427.1	435.5
67.5°	257.4	300.3	360.5	383.9	383.9
70°	214.6	261.7	321.9	328.2	315.3
72.5°	171.7	225.4	279.0	255.3	244.6
75°	131.0	190.9	218.8	197.5	190.9
77.5°	98.6	154.4	154.4	141.5	137.3
80°	68.6	118.1	103.1	90.2	83.6
82.5°	45.0	66.5	53.6	42.9	36.6
85°	23.7	25.8	15.0	12.9	10.8
87.5°	8.7	4.2	2.1	4.2	2.1
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)