

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: P731873

Luminaire Tested: **14CZ2-35-RDP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731873  
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: 14CZ2-35-RDP-B2750-W2D-3500K  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

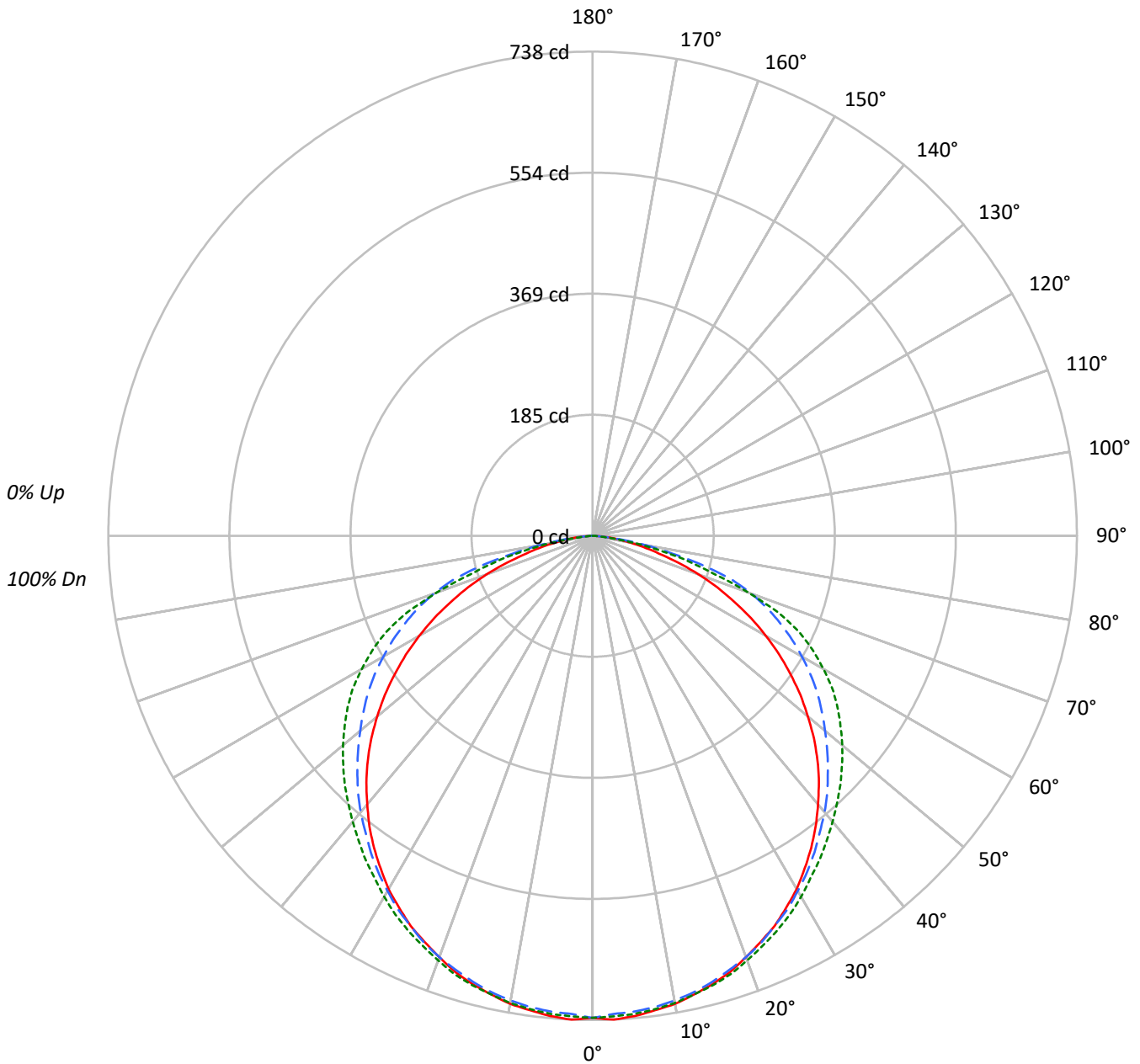
Lumens per Lamp: N/A  
Luminaire Lumens: 2194.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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					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	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°	2074	2074	2074
5°	2082	2062	2073
10°	2077	2062	2072
15°	2067	2057	2072
20°	2053	2053	2068
25°	2043	2043	2070
30°	2027	2038	2071
35°	2001	2031	2078
40°	1969	2026	2096
45°	1935	2024	2133
50°	1881	2031	2181
55°	1812	2057	2242
60°	1721	2079	2292
65°	1590	2105	2322
70°	1414	2121	2077
75°	1141	1905	1662
80°	891	1338	1086
85°	612	389	279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	3.2
10°-20°	199.5	9.1
20°-30°	303.9	13.8
30°-40°	370.1	16.9
40°-50°	392.6	17.9
50°-60°	370.6	16.9
60°-70°	299.2	13.6
70°-80°	162.3	7.4
80°-90°	26.3	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°	572.9	26.1
0°-40°	943.0	43.0
0°-60°	1706.2	77.8
0°-90°	2194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	735	733	728	733	732	70
15°	707	706	704	709	709	200
25°	656	654	656	663	664	302
35°	581	584	589	601	603	363
45°	485	492	507	526	534	373
55°	368	384	418	445	456	329
65°	238	267	315	341	348	236
75°	105	152	175	158	152	114
85°	19	21	12	10	9	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	734.8	734.8	734.8	734.8	734.8
2.5°	738.2	734.8	729.6	734.8	733.2
5°	734.8	733.2	727.9	733.2	731.5
7.5°	729.6	729.6	724.5	727.9	727.9
10°	724.5	722.9	719.5	724.5	722.9
12.5°	715.9	714.3	712.6	717.6	715.9
15°	707.3	705.6	704.0	709.2	709.2
17.5°	697.0	695.4	693.7	700.6	700.6
20°	683.4	683.4	683.4	690.3	688.6
22.5°	669.7	669.7	671.4	678.4	676.7
25°	656.1	654.4	656.1	662.8	664.5
27.5°	638.9	640.6	642.2	649.2	650.9
30°	621.9	623.6	625.2	633.8	635.5
32.5°	601.3	604.7	608.0	618.3	618.3
35°	580.7	584.1	589.3	601.3	603.0
37.5°	558.5	561.8	568.8	582.4	585.8
40°	534.3	539.6	549.9	563.5	568.8
42.5°	510.4	517.3	529.3	544.6	551.5
45°	484.8	491.5	507.0	525.9	534.3
47.5°	457.3	465.9	484.8	508.7	515.6
50°	428.3	440.3	462.5	488.1	496.7
52.5°	399.1	412.8	440.3	467.6	476.2
55°	368.3	383.6	418.0	445.3	455.6
57.5°	337.4	354.6	393.9	423.1	433.3
60°	304.9	325.4	368.3	397.4	406.0
62.5°	272.3	296.2	342.6	371.6	378.5
65°	238.1	267.3	315.1	341.0	347.7
67.5°	205.5	239.8	287.8	306.5	306.5
70°	171.3	208.9	257.0	262.0	251.7
72.5°	137.1	179.9	222.8	203.9	195.3
75°	104.6	152.4	174.7	157.7	152.4
77.5°	78.7	123.2	123.2	113.0	109.6
80°	54.8	94.3	82.3	72.0	66.8
82.5°	35.9	53.1	42.8	34.2	29.2
85°	18.9	20.6	12.0	10.3	8.6
87.5°	6.9	3.4	1.7	3.4	1.7
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)