

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: P842880

Luminaire Tested: **14CZ2-44-RDP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842880
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-UNV-B50
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

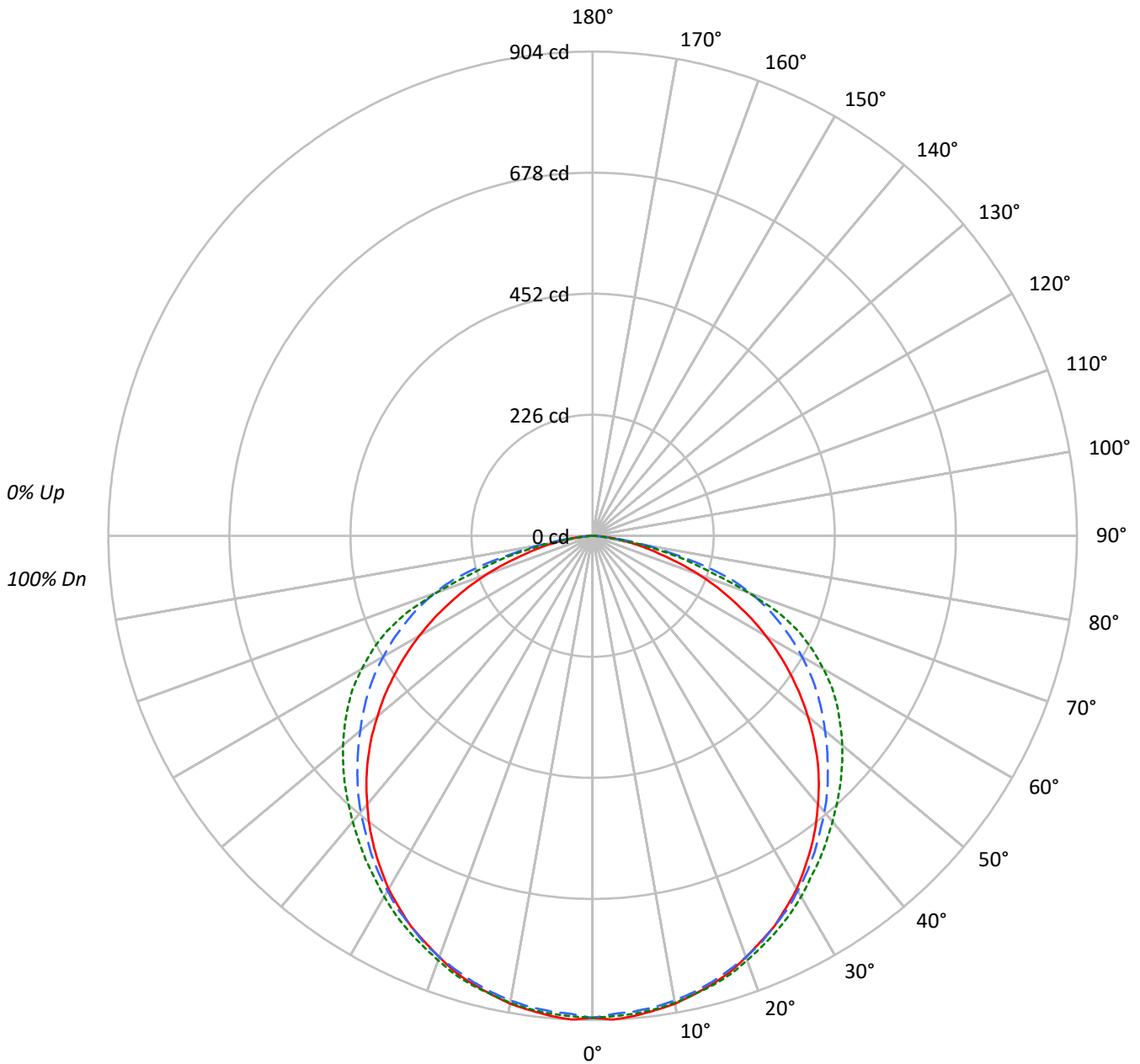
Lumens per Lamp: N/A
Luminaire Lumens: 2687.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (A_{in}): 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°	2540	2540	2540
5°	2550	2526	2538
10°	2543	2526	2537
15°	2532	2520	2538
20°	2514	2514	2533
25°	2502	2502	2535
30°	2482	2496	2537
35°	2451	2487	2545
40°	2411	2481	2567
45°	2370	2479	2612
50°	2303	2488	2672
55°	2219	2519	2746
60°	2108	2546	2807
65°	1948	2578	2844
70°	1731	2597	2544
75°	1397	2333	2036
80°	1091	1639	1330
85°	748	476	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	3.2
10°-20°	244.4	9.1
20°-30°	372.1	13.8
30°-40°	453.3	16.9
40°-50°	480.9	17.9
50°-60°	453.8	16.9
60°-70°	366.4	13.6
70°-80°	198.8	7.4
80°-90°	32.2	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°	701.7	26.1
0°-40°	1155.0	43.0
0°-60°	2089.6	77.8
0°-90°	2687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	900	898	892	898	896	85
15°	866	864	862	869	869	244
25°	804	802	804	812	814	370
35°	711	715	722	736	738	445
45°	594	602	621	644	654	457
55°	451	470	512	545	558	403
65°	292	327	386	418	426	289
75°	128	187	214	193	187	140
85°	23	25	15	13	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.0	900.0	900.0	900.0	900.0
2.5°	904.1	900.0	893.5	900.0	897.9
5°	900.0	897.9	891.5	897.9	895.8
7.5°	893.5	893.5	887.4	891.5	891.5
10°	887.4	885.3	881.2	887.4	885.3
12.5°	876.8	874.8	872.7	878.9	876.8
15°	866.3	864.2	862.2	868.6	868.6
17.5°	853.7	851.6	849.6	858.0	858.0
20°	837.0	837.0	837.0	845.4	843.4
22.5°	820.2	820.2	822.3	830.8	828.7
25°	803.5	801.5	803.5	811.8	813.8
27.5°	782.4	784.5	786.6	795.0	797.1
30°	761.6	763.7	765.7	776.3	778.3
32.5°	736.4	740.5	744.6	757.2	757.2
35°	711.2	715.3	721.8	736.4	738.5
37.5°	684.0	688.1	696.6	713.3	717.4
40°	654.4	660.8	673.4	690.1	696.6
42.5°	625.1	633.6	648.2	667.0	675.5
45°	593.7	601.9	621.0	644.1	654.4
47.5°	560.0	570.6	593.7	623.0	631.5
50°	524.5	539.2	566.5	597.8	608.4
52.5°	488.8	505.5	539.2	572.6	583.2
55°	451.0	469.8	511.9	545.4	558.0
57.5°	413.2	434.3	482.4	518.1	530.7
60°	373.4	398.6	451.0	486.7	497.3
62.5°	333.5	362.8	419.6	455.1	463.6
65°	291.6	327.3	386.0	417.6	425.8
67.5°	251.7	293.6	352.5	375.4	375.4
70°	209.8	255.8	314.7	320.9	308.3
72.5°	167.9	220.4	272.8	249.7	239.1
75°	128.1	186.7	213.9	193.1	186.7
77.5°	96.4	150.9	150.9	138.3	134.2
80°	67.1	115.5	100.8	88.2	81.8
82.5°	44.0	65.1	52.5	41.9	35.7
85°	23.1	25.2	14.7	12.6	10.5
87.5°	8.5	4.1	2.1	4.1	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)